**CURRICULUM VITAE**

**Titus K Schleyer, DMD, PhD**

**Indiana University**

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| **Business Address:** | Regenstrief Institute1101 W 10th St.Indianapolis, IN 46202 | **Business Phone:** | (317) 274-9204 |
| **Email Address:** | schleyer@regenstrief.org  |  |  |
| **Home Phone:** | (317) 759-2774 |  |  |
| **Citizenship:** | United States, German |

**Education and training**

|  |  |  |
| --- | --- | --- |
| 1995 | The Fox School of Business, Temple University, Philadelphia, PA | MBA, Health Administration |
| 1991 | Temple University, School of DentistryPhiladelphia, PA | DMD |
| 1989 | School of Dentistry and School of Medicine, Goethe University Frankfurt, Frankfurt am Main, Hessen, Germany | PhD, Molecular Biologymagna cum laude |
| 1987 | School of Dentistry, Goethe University Frankfurt, Frankfurt am Main, Hessen, Germany | DMD |

**Appointments and positions**

**Academic**

|  |  |  |
| --- | --- | --- |
| 6/1/2013 - present**(main position)** | School of MedicineIndiana UniversityIndianapolis, IN | Professor of Biomedical Informatics (tenured)Department of Medicine |
| 1/1/2020 - present | Member, Executive Committee, Learning Health System Young Investigator Program | Regenstrief Institute |
| 1/1/2020 - present | Mentor, Advanced Scholars Program for Internists in Research and Education (ASPIRE) | Department of Medicine |
| 7/1/2017 - present  | Indiana Public and Population Health Informatics Training Program (NLM T15-funded) | Co-director |
| 11/1/2017 - present | IU Richard M. Fairbanks School of Public Health | Faculty Fellow, Center for Health Policy |
| 10/1/2017 - present | Regenstrief Institute, Center for Biomedical InformaticsIndianapolis, IN | Program Director, Learning Health Informatics |
| 5/10/2017 - present  | IU Richard M. Fairbanks School of Public Health | Adjunct Professor, Department of Health Policy and Management |
| 10/1/2016 - present  | IU School of MedicineIndiana University, Indiana, IN | Adjunct Professor, Center for Computational Biology and Bioinformatics |
| 7/1/2016 - present | IU School of Informatics & Computing, Indiana University, Indianapolis, IN | Adjunct Professor, Department of BioHealth Informatics |
| 1/1/2016 - present  | Regenstrief InstituteIndianapolis, IN | Research Scientist, Center for Biomedical Informatics |
| 7/1/2013 - present  | School of MedicineUniversity of PittsburghPittsburgh, PA | Adjunct Associate Professor,Department of Biomedical Informatics |
| 6/1/2013 - 12/31/2015  | Regenstrief InstituteIndianapolis, IN | Director,Center for Biomedical Informatics |
| 6/2013 - present | Indiana University | MemberGraduate Faculty |
| 6/2013 - 6/2015 | School of MedicineIndiana University | Director, Informatics and Data Analysis CoreClinical and Translational Science Institute |
| 1/2011 - 5/2013 | School of Information SciencesUniversity of PittsburghPittsburgh, PA | Associate Professor |
| 10/2008 - 5/2013 | University of PittsburghPittsburgh, PA | Associate Professor,Clinical and Translational Science Institute |
| 5/2007 - 5/2013 | School of MedicineUniversity of PittsburghPittsburgh, PA | Associate Professor,Department of Biomedical Informatics |
| 12/2003 - 5/2013 | University of PittsburghPittsburgh, PA | MemberGraduate Faculty |
| 1/2002 - 5/2013 | School of Dental MedicineUniversity of PittsburghPittsburgh, PA | Associate Professor (tenured) and Director,Center for Dental Informatics |
| 7/1996 - 12/2001 | School of DentistryTemple UniversityPhiladelphia, PA | Associate Professor (tenured) and Chair,Department of Dental Informatics |
| 7/1996 - 5/2013 | School of MedicineUniversity of PittsburghPittsburgh, PA | Co-director, Biomedical Informatics Training ProgramCenter/Department of Biomedical Informatics |
| 8/1995 - 6/1996 | School of DentistryTemple UniversityPhiladelphia, PA | Associate Professor (tenured),Department of Operative Dentistry |
| 7/1991 - 6/1996 | School of DentistryTemple UniversityPhiladelphia, PA | Director, Computer Support Services |
| 8/1989 - 7/1995 | School of DentistryTemple UniversityPhiladelphia, PA | Assistant ProfessorDepartment of Operative Dentistry |

**Part-time/non-academic**

|  |  |  |
| --- | --- | --- |
| 10/1/2017 - present | Indiana University Health | Director, Learning Health Informatics |
| 2016 - 2019 | hc1.comIndianapolis, IN | Advisor (part time) |
| 1996 - 2011 | S3 Web Technologies, LLCPittsburgh, PA | Founding partner |
| 1988 - 1989 | Deutsche BundeswehrWildflecken, Germany | Dentist (rank: captain) |
| 1988 - 1989 | Dr. Scheublein/private practiceHammelburg, Germany | Dentist (part-time) |
| 1986 - 1987 | School of Dentistry, University of Frankfurt am Main, Germany | System Administrator (part time) |
| 1985 - 1987 | MEL Dr. Neuhaus GmbHWiesbaden, Germany | Information technology consultant |
| 1984 - 1985 | School of Medicine, University of Frankfurt am Main, Germany | Systems Analyst (part time),Department of Medical Informatics |

**Certification and licensure**

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| --- | --- |
| 2000 - present | MicrosoftCertified Systems Engineer |
| 1991 - 2017 | PA State Board of DentistryDentistry |
| 1990 - 2017 | Basic Cardiac Life Support |
| 1988 - present | Kassenzahnärztlicher BundesverbandDentistry |

**Membership in professional and scientific societies**

|  |  |
| --- | --- |
| 2018 - present | Member, HL7 Fast Healthcare Interoperability Resources Foundation |
| 2008 - 2019 | Member, International & American Associations for Dental Research |
| 2006 - present | Member, Association for Computing Machinery |
| 1995 - 2013 | Member, American Dental Association |
| 1994 - present | Member, American Medical Informatics Association |
| 1993 - present | Member, The Institute of Electrical and Electronics Engineers |
| 1990 - 2007 | Member, Foresight Institute |
| 1989 - 2019 | Member, American Dental Education Association |
| 1983 - 2018 | Member, Gesellschaft für Medizinische Informatik, Biometrie und Statistik |

**Honors and awards**

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| --- | --- |
| 2020 | Regenstrief Institute Outstanding Investigator Award (CBMI) |
| 2020 | Indiana University Trustee Teaching Award |
| 2018 - present | Fellow, American Medical Informatics Association |
| 2019 | Distinguished Poster award, Towards measuring real-world vs. theoretical impact: Development of an enhanced method evaluating health information exchange (HIE). AMIA 2019 Annual Fall Symposium (mentor) |
| 2018 | Distinguished Poster award, Leveraging FHIR to integrate information from a health information exchange directly with the clinical workflow in Cerner, AMIA 2018 Annual Fall Symposium |
| 2018 | Distinguished Poster award, Developing a national dashboard to help manage the opioid epidemic using toxicology laboratory results data, AMIA 2018 Annual Fall Symposium |
| 2018 | Best presentation, One-click Integration of Information from the Indiana Network for Patient Care with Cerner, Indiana School of Medicine 3rd Annual Patient Safety and Quality Day (mentor) |
| 2018  | Innovation of the Year, Strategic Health Information Exchange Collaborative |
| 2018 | Nominee for Innovation of the Year, TechPoint |
| 2017 | 1st Place, Inaugural American Medical Informatics Association Pitch IT Competition (FHIR HIEdrant project) |
| 2013 - 2017 | Clem McDonald Professor of Biomedical Informatics |
| 2009 - present | Fellow, American College of Medical Informatics |
| 2005 - present | Fellow, American College of Dentists |
| 1995 - present | Member, Beta Gamma Sigma |
| 1997 - 2001 | Laura Carnell Professor of Dentistry, Temple University School of Dentistry |
| 1999 | Dental Visionary, American Student Dental Association |

**Publications**

**Peer-reviewed journal papers**

1. Taylor HL, Rahurkar S, Treat TJ, Thyvalikakath TP, **Schleyer TK**. Does non-surgical periodontal treatment improve systemic health? Journal of Dental Research (accepted)
2. Haendel MA, Chute CG, Kenneth G, **The National COVID Cohort Collaborative (N3C).** The National COVID Cohort Collaborative (N3C): Rationale, Design, Infrastructure, and Deployment. JAMIA 2020; PMID: 32805036. doi: [10.1093/jamia/ocaa196](https://doi.org/10.1093/jamia/ocaa196)
3. Thyvalikakath TP, Duncan WD, Siddiqui Z, LaPradd M, Eckert G, **Schleyer T,** Rindal DB, Jurkovich M, Shea T, Gilbert GH, & National Dental PBRN Collaborative Group. Leveraging electronic dental record data for clinical research in the National Dental PBRN practices. Appl Clin Inform 2020; 11(02): 305-314. doi: [10.1055/S-0040-1709506](http://doi.org/10.1055/S-0040-1709506)
4. Duncan WD, Thyvalikakath T, Haendel M, Torniai C, Hernandez P, Song M, Acharya A, Caplan DJ, **Schleyer T**, Ruttenberg A. Structuring, reuse and analysis of electronic dental data using the Oral Health and Disease Ontology. J. Biomed. Semant 2020; 11(1):8. PMID: 32819435. doi: [10.1186/s13326-020-00222-0](https://doi.org/10.1186/s13326-020-00222-0)
5. Ravizza S, Huschto T, Adamov A, Böhm L, Büsser A, Flöther FF, Hinzmann R, König H, McAhren S, Robertson D, **Schleyer T**, Schneidinger B, Petrich W. Predicting the early risk of chronic kidney disease in patients with diabetes using real-world data. Nat Med. 2019;25(1):57–9. PMID: [30617317](https://www.ncbi.nlm.nih.gov/pubmed/?term=30617317). doi: [10.1038/s41591-018-0239-8](https://doi.org/10.1038/s41591-018-0239-8)
6. **Schleyer T**, Hui S, Wang J, Zhang Z, Knapp K, Baker J, Chase M, Boggs R, Jr. Simpson RJ. Quantifying unmet need in statin-treated hyperlipidemia patients and the potential benefit of further LDL-C reduction through an EHR-based, retrospective cohort study. J Manag Care Spec Pharm. 2018; 1-32. PMID: [31039062](https://www.ncbi.nlm.nih.gov/pubmed/?term=31039062)
7. Nguyen K, Li L, Lu D, Yazdanparast A, Wang L, Kreutz R, Whipple EC, **Schleyer TK**. A comprehensive review and meta-analysis of risk factors for statin-induced myopathy. Eur J Clin Pharmacol [Internet]. 2018 Sep; 74(9):1099–109. PMID: [29785580](https://www.ncbi.nlm.nih.gov/pubmed/?term=29785580). doi: [10.1007/s00228-018-2482-9](https://doi.org/10.1007/s00228-018-2482-9)
8. Thyvalikakath T, Song M, **Schleyer T**. Perceptions and attitudes toward performing risk assessment for periodontal disease: A focus group exploration. BMC Oral Health. 2018 May 21; 18:90. PMID: [29783966](https://www.ncbi.nlm.nih.gov/pubmed/?term=29783966)
9. Chiang W-H, **Schleyer T**, Shen L, Li L, Ning X. Pattern discovery from high-order drug-drug Interaction relations. J Health Informatics Res. 2018 Sep 18; 2(3):272–304. doi: [10.1007/s41666-018-0020-2](https://doi.org/10.1007/s41666-018-0020-2)
10. Zhang P, Li M, Chiang C, Wang L, Xiang Y, Cheng L, Feng W, **Schleyer TK**, et al. Three-component mixture model-based adverse drug event signal detection for the adverse event reporting system. CPT Pharmacometrics Syst Pharmacol. 2018 Aug 9;7(8):499–506. PMID: 30091855. PMCID: PMC6118321. doi: 10.1002/psp4.12294.

Available from: https://scholarworks.iupui.edu/handle/1805/

1. Bateman DR, Srinivas B, Emmett TW, **Schleyer TK**, Holden RJ, Hendrie HC, et al. Categorizing health outcomes and efficacy of mHealth apps for persons with cognitive impairment: A systematic review. J Med Internet Res. 2017 Aug 30;19(8):301. Available from: http://www.jmir.org/2017/8/e301/
2. Vest JR, Harle CA, **Schleyer T**, Dixon BE, Grannis SJ, Halverson PK, Menachemi N, Getting from here to there: Health IT needs for population health, American Journal of Managed Care; 2016 Dec; 22(12):827-9. PMID: 27982666
3. Stein CD, Xiao X, Levine S, **Schleyer TK**, Hochheiser H, Thyvalikakath TP. A prototype mobile application for triaging dental emergencies. Journal of The American Dental Association (1939). 2016 Oct; 147(10):782-791. PMID: 27206728. doi: 10.1016/j.adaj.2016.03.021.
4. Thyvalikakath TP, Dziabiak MP, Johnson R, Torres-Urquidy MH, Acharya A, Yabes J, **Schleyer TK**. Advancing cognitive engineering methods to support user interface design for electronic health records. International Journal of Medical Informatics. 2014 Apr; 83 (4):292-302. PMCID: PMC3977320. PMID: 24503391.
5. Rush WA, **Schleyer TK**, Kirshner M, Boyle R, Thoele MJ, Lenton PA, Asche S, Thyvalikakath T, Spallek H, Durand EC, Enstad CJ, Huntley CL, Rindal DB. Integrating tobacco dependence counseling into electronic dental records: a multi-method approach. Journal of Dental Education. 2014 Jan; 78(1):31-9. PMID: 24385522.
6. Borromeo CD, **Schleyer TK**, Becich MJ, Hochheiser H. Finding collaborators: toward interactive discovery tools for research network systems. Journal of Medical Internet Research. 2014 Nov 4; 16 (11):e244. PMCID: PMC4376239. PMID: 25370463.
7. Acharya A, Hernandez P, Thyvalikakath T, Ye H, Song M, **Schleyer T**. Development and initial validation of a content taxonomy for patient records in general dentistry. International Journal of Medical Informatics. 2013 Dec; 82(12):1171-82. PMCID: PMC3840041. PMID: 23838618.
8. Liu K, Acharya A, Alai S, **Schleyer TK**. Using electronic dental record data for research: a data-mapping study. Journal of Dental Research. 2013 Jul; 92:90S-6S. PMCID: PMC3706179. PMID: 23690362.
9. Song M, Liu K, Abromitis R, **Schleyer TL**. Reusing electronic patient data for dental clinical research: A review of current status. Journal of Dentistry. 2013 Apr 18; 41(12):1148-63. PMID: 23603087.
10. Rindal DB, Rush WA, **Schleyer TK**, Kirshner M, Boyle RG, Thoele MJ, Asche SE, Thyvalikakath T, Spallek H, Durand EC, Enstad CJ, Huntley CL. Computer-assisted guidance for dental office tobacco-cessation counseling: a randomized controlled trial. American Journal of Preventive Medicine. 2013 Mar; 44 (3):260-4. PMCID: PMC3579569. PMID: 23415123.
11. **Schleyer T**, Song M, Gilbert GH, Rindal DB, Fellows JL, Gordan VV, Funkhouser E. Electronic dental record use and clinical information management patterns among practitioner-investigators in The Dental Practice-Based Research Network. Journal of The American Dental Association (1939). 2013 Jan; 144 (1):49-58. PMCID: PMC3539217. PMID: 23283926.
12. **Schleyer T**, Butler BS, Song M, Spallek H. Conceptualizing and advancing research networking systems. ACM Transactions on Computer-human Interaction: A Publication of The Association for Computing Machinery. 2012 Mar 1; 19 (1). PMCID: PMC3872832. PMID: 24376309. doi: 10.1145/2147783.2147785.
13. Lee DH, **Schleyer TK**. Social tagging is no substitute for controlled indexing: A comparison of Medical Subject Headings and CiteULike tags assigned to 231,388 papers. Journal of the American Society for Information Science and Technology. 2012 Aug 17; 63 (9):1747-57. doi: 10.1002/asi.22653.
14. Weber GM, Barnett W, Conlon M, Eichmann D, Kibbe W, Falk-Krzesinski H, Halaas M, Johnson L, Meeks E, Mitchell D, **Schleyer T**, Stallings S, Warden M, Kahlon M, Direct2Experts Collaboration. Direct2Experts: A pilot national network to demonstrate interoperability among research-networking platforms. Journal of The American Medical Informatics Association: JAMIA. 2011 Dec; 18:i157-60. PMCID: PMC3241163. PMID: 22037890. doi: 10.1136/amiajnl-2011-000200.
15. **Schleyer TK**, Thyvalikakath TP, Spallek H, Dziabiak MP, Johnson LA. From information technology to informatics: The information revolution in dental education. Journal of Dental Education. 2012 Jan; 76 (1):142-53. PMID: 22262557.
16. **Schleyer T**, Mattsson U, Ní Ríordáin R, Brailo V, Glick M, Zain RB, Jontell M. Advancing oral medicine through informatics and information technology: A proposed framework and strategy. Oral Diseases. 2011 Apr; 17:85-94. PMID: 21382141.
17. Irwin JY, Thyvalikakath T, Spallek H, Wali T, Kerr AR, **Schleyer T**. English and Spanish oral cancer information on the Internet: A pilot surface quality and content evaluation of oral cancer Web sites. Journal of Public Health Dentistry. 2011 Spring; 71(2):106-16. PMID: 21774133.
18. **Schleyer TK**, Thyvalikakath T, Smailagic A. Informatics innovation in clinical care: A visionary scenario for dentistry. Electronic Journal of Health Informatics. 2011; 6 (4):1-9.
19. Song M, Spallek H, Polk D, **Schleyer T**, Wali T. How information systems should support the information needs of general dentists in clinical settings: Suggestions from a qualitative study. BMC Medical Informatics and Decision Making. 2010 Feb 2; 10:7. PMCID: PMC2843644. PMID: 20122272.
20. Irwin JY, Torres-Urquidy MH, **Schleyer T**, Monaco V. A preliminary model of work during initial examination and treatment planning appointments. British Dental Journal. 2009 Jan 10; 206 (1):24-5. PMID: 19119286.
21. Torres-Urquidy MH, Wallstrom G, **Schleyer TK**. Detection of disease outbreaks by the use of oral manifestations. Journal of Dental Research. 2009 Jan; 88(1):89-94. PMID: 19131324.
22. Acharya A, **Schleyer TK**. Electronic dental record information model. International Journal of Medical Engineering and Informatics. 2009; 1(4):418-434.
23. Thyvalikakath TP, Monaco V, Thambuganipalle HB, **Schleyer T**. A usability evaluation of four commercial dental computer-based patient record systems. Journal of the American Dental Association. 2008 Dec; 139 (12):1632-42. PMCID: PMC2614265. PMID: 19047669.
24. Cox MJ, **Schleyer T**, Johnson LA, Eaton KA, Reynolds PA. Making a mark--taking assessment to technology. British Dental Journal. 2008 Jul 12; 205(1):33-9. PMID: 18617943.
25. Spallek H, Butler BS, **Schleyer TK**, Weiss PM, Wang X, Thyvalikakath TP, Hatala CL, Naderi RA. Supporting emerging disciplines with e-communities: Needs and benefits. Journal of Medical Internet Research. 2008; 10 (2):e19. PMCID: PMC2483921. PMID: 18653443.
26. **Schleyer T**, Spallek H, Butler BS, Subramanian S, Weiss D, Poythress ML, Rattanathikun P, Mueller G. Facebook for scientists: Requirements and services for optimizing how scientific collaborations are established. Journal of Medical Internet Research. 2008; 10(3):e24. PMCID: PMC2553246. PMID: 18701421.
27. **Schleyer TK**, Thyvalikakath TP, Malatack P, Marotta M, Shah TA, Phanichphant P, Price G, Hong J. The feasibility of a three-dimensional charting interface for general dentistry. Journal of the American Dental Association. 2007 Aug; 138(8):1072-80. PMID: 17670873.
28. **Schleyer T**, Spallek H, Hernández P. A qualitative investigation of the content of dental paper-based and computer-based patient record formats. Journal of the American Medical Informatics Association. 2007 Jul; 14(4):515-26. PMCID: PMC2244908. PMID: 17460133.
29. Spallek H, Irwin JY, **Schleyer T**, Butler BS, Weiss PM. Supporting the emergence of dental informatics with an online community. International Journal of Computerized Dentistry. 2007 Jul; 10(3):247-64. PMCID: PMC2367256. PMID: 18271498.
30. Thyvalikakath TP, **Schleyer TK**, Monaco V. Heuristic evaluation of clinical functions in four practice management systems: A pilot study. Journal of the American Dental Association. 2007 Feb; 138 (2):209-10, 212-8. PMID: 17272376.
31. **Schleyer TK**, Spallek H, Thyvalikakath T, Torres - Urquidy M, Hernandez P, Yuhaniak J. Clinical computing in general dentistry. Journal of the American Medical Informatics Association. 2006 May; 13(3):344-52. PMCID: 1513654. PMID: 16501177.
32. Corby PM, **Schleyer T**, Spallek H, Hart TC, Weyant RJ, Corby AL, Bretz WA. Using biometrics for participant identification in a research study: A case report. Journal of the American Medical Informatics Association. 2006 Mar; 13(2):233-5. PMCID: PMC1447546. PMID: 16357359.
33. **Schleyer TK**, Dodell D. Continuing dental education requirements for relicensure in the United States. Journal of the American Dental Association. 2005 Oct; 136(10):1450-6. PMID: 16255471.
34. **Schleyer TK**, Teasley SD, Bhatnagar R. Comparative case study of two biomedical research collaboratories. Journal of Medical Internet Research. 2005 Oct; 7(5):e53. PMCID: PMC1408071. PMID: 16403717.
35. **Schleyer TK**. Should dentistry be part of the National Health Information Infrastructure? Journal of the American Dental Association. 2004 Dec; 135(12):1687-95. PMID: 15646601.
36. **Schleyer TK**. Why integration is key for dental office technology. Journal of the American Dental Association. 2004 Oct; 135:4S-9S. PMID: 15543814.
37. **Schleyer TK**, Johnson LA. Evaluation of educational software. Journal of Dental Education. 2003 Nov; 67(11):1221-8. PMID: 14650503.
38. Johnson LA, **Schleyer TK**. Developing high-quality educational software. Journal of Dental Education. 2003 Nov; 67(11):1209-20. PMID: 14650502.
39. **Schleyer TK**. Dental informatics: An emerging biomedical informatics discipline. Journal of Dental Education. 2003 Nov; 67 (11):1193-200. PMID: 14650500.
40. **Schleyer TK**, Spallek H, Bartling WC, Corby P. The technologically well-equipped dental office. Journal of the American Dental Association. 2003 Jan; 134(1):30-41. PMID: 12555955.
41. **Schleyer T**, Eaton KA, Mock D, Barac’h V. Comparison of dental licensure, specialization and continuing education in five countries. European Journal of Dental Education. 2002 Nov; 6(4):153-61. PMID: 12410666.
42. **Schleyer T**. Application service providers in dentistry. Dental Clinics of North America. 2002 Jul; 46(3):477-91. PMID: 12222092.
43. Spallek H, Pilcher E, Lee JY, **Schleyer T**. Evaluation of web-based dental CE courses. Journal of Dental Education. 2002 Mar; 66(3):393-404. PMID: 11936230.
44. **Schleyer T**, Spallek H. An evaluation of five dental Internet portals. Journal of the American Dental Association. 2002 Feb; 133(2):204-12. PMID: 11868839.
45. Barac’h V, **Schleyer TK**. Dental concepts in the Unified Medical Language System. Quintessence International. 2002 Jan; 33(1):69-74. PMID: 11887536.
46. **Schleyer TK**, Torres-Urquidy H, Straja S. Validation of an instrument to measure dental students’ use of, knowledge about, and attitudes towards computers. Journal of Dental Education. 2001 Sep; 65(9):883-91. PMID: 11569604.
47. **Schleyer TK**. Collaboratories: Leveraging information technology for cooperative research. Journal of Dental Research. 2001 Jun; 80(6):1508-12. PMID: 11499503.
48. **Schleyer T**, Spallek H. Dental informatics. A cornerstone of dental practice. Journal of the American Dental Association. 2001 May; 132(5):605-13. PMID: 11367964.
49. **Schleyer TK**, Forrest JL. Methods for the design and administration of Web-based surveys. Journal of the American Medical Informatics Association. 2000; 7(4):416-25. PMCID: PMC61445. PMID: 10887169.
50. **Schleyer TK**. Digital dentistry in the computer age. Journal of the American Dental Association. 1999 Dec; 130(12):1713-20. PMID: 10599173.
51. Johnson LA, **Schleyer T**. Development of standards for the design of educational software. Quintessence International. 1999 Nov; 30(11):763-8. PMID: 10765876.
52. **Schleyer T**, Johnson LA, Pham T. Instructional characteristics of online continuing education courses. Quintessence International. 1999 Nov; 30(11):755-62. PMID: 10765875.
53. **Schleyer TK**, Forrest JL, Kenney R, Dodell DS, Dovgy NA. Is the internet useful for clinical practice? Journal of the American Dental Association. 1999 Oct; 130 (10):1501-11. PMID: 10570599.
54. Spallek H, **Schleyer TK**. Educational implications for copyright in a digital world. Journal of Dental Education. 1999 Sep; 63(9):673-681. PMID: 10518204.
55. **Schleyer TK**, Dasari VR. Computer-based oral health records on the World Wide Web. Quintessence International. 1999 Jul; 30(7):451-60. PMID: 10635257.
56. **Schleyer TK**, Pham T. Online continuing dental education. Journal of the American Dental Association. 1999 Jun; 130(6):848-54. PMID: 10377644.
57. **Schleyer TK**. Clinical decision-making and the Internet. The Journal of the American College of Dentists. 1999 Summer; 66(2):29-39. PMID: 10506804.
58. Spallek H, **Schleyer TK.** Internet basics. The Journal of the American College of Dentists. 1999; 66(2):6-15. PMID: 10506802.
59. **Schleyer TK**, Spallek H, Torres-Urquidy MH. A profile of current Internet users in dentistry. Journal of the American Dental Association. 1998 Dec; 129(12):1748-53. PMID: 9854927.
60. **Schleyer T**. Assessing outcomes of an academic computing initiative. Journal of Dental Education. 1998 Jun; 62(6):432-40. PMID: 9698700.
61. **Schleyer T**, Spallek H, Arsalan M. Dental resources on the World Wide Web. M.D. Computing. 1998 Jul-Aug; 15(4):252-5, 265. PMID: 9673092.
62. **Schleyer TK**. How should dental informatics evolve? Journal of Dental Education. 1996 Mar; 60(3):291-95. PMID: 8594114.
63. **Schleyer TK**. A portable, GUI-based, object-oriented client-server architecture for computer-based patient record (CPR) systems. Journal of the Society for Health Systems. 1995; 5(1):55-62. PMID: 7662879.
64. **Schleyer T**. The digital revolution: Are we in control? The Journal of the American College of Dentists. 1995 Winter; 62(4):22-6. PMID: 8926314.
65. **Schleyer T**, Eisner J. The computer-based oral health record: An essential tool for cross-provider quality management. Journal of the California Dental Association. 1994 Nov; 22 (11):57-8, 60-1, 63-4. PMID: 7760162.
66. **Schleyer TK**. Temple Dental School uses expert system to schedule students’ clinical rotations. Interfaces. 1994 Oct 1; 24(5):13-21. doi: 10.1287/inte.24.5.13
67. **Schleyer TK**, Böhm BO. New computer program for graphical analysis: Homologies/similarities in sequences of the MHC. Biotech Forum Europe. 1992 May; 9 (5):282-285.

**Peer-reviewed conference papers**

1. **Schleyer TKL**, Rahurkar S, Baublet AM, Kochmann M, Ning X, Martin DK, Finnell JT, Kelley KW, FHIR Development Team, Schaffer JT. Preliminary evaluation of the Chest Pain Dashboard, a FHIR-based approach for integrating health information exchange information directly into the clinical workflow. AMIA 2019 Informatics Summit. 2019 Mar 26. San Francisco, CA. PMID: [31259021](https://www.ncbi.nlm.nih.gov/pubmed/31259021)
2. Ning X, **Schleyer T**, Shen L, Li L. Pattern discovery from directional high-order drug-drug interaction relations. 2017 IEEE International Conference on Healthcare Informatics (ICHI). 2017 Aug 23-26. Park City, UT. doi: [10.1109/ICHI.2017.20](https://doi.org/10.1109/ICHI.2017.20)
3. **Schleyer T**, King Z, Ben Miled Z, A novel conceptual architecture for person-centered health records. AMIA 2016 Annual Symposium. 2016 Nov 12-16. Chicago, IL. PMID: [28269906](https://www.ncbi.nlm.nih.gov/pubmed/28269906)
4. Lee DH, Brusilovsky P, **Schleyer TK**. Recommending collaborators using social features and MeSH terms. 74th Annual Meeting of the American Society for Information Science and Technology. 2011 Oct 9-13. New Orleans. doi: [10.1002/meet.2011.14504801025](https://doi.org/10.1002/meet.2011.14504801025)
5. Lee DH, **Schleyer TK**. A comparison of MeSH terms and CiteULike social tags as metadata for the same items. In: Proceedings of the 1st ACM International Health Informatics Symposium. IHI ‘10 ACM International Health Informatics Symposium; 2010 Nov 11-12; Arlington, VA, New York, NY: ACM; 2010 Nov. p.445-448.
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|  |  | **Schleyer TK**. Nanodentistry: Fact or fiction? Journal of the American Dental Association. 2000 Nov; 131: 1567-1568. |
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|  |  | **Schleyer TK**, Dove B. Digital radiography (letter to the editor). Journal of the American Dental Association. 1999 Dec;130(0):1693-1694. |
|  |  | Spallek H, **Schleyer T**. Im internen Netz surfen. Zahnärzteblatt Sachsen 1998; 9(5):19-20. |
|  |  | Spallek H, **Schleyer T**. Abwehr von Eindringlingen. Zahnärzteblatt Sachsen 1998; 9(5):19-20. |
|  |  | Spallek H, **Schleyer T**. Online Weiterbilden. Zahnärzteblatt Sachsen 1998; 9(10): 32-33. |
|  |  | Spallek H, **Schleyer T**. DENTALIS -The Global Dentistry Network; Der Online - Weg in die Zukunft? Zahnmedizinische Mitteilungen, Vol. 87, Nr. 5, 72-74. |
|  |  | Spallek H, **Schleyer T**. Zahnmedizinische Informatik als Lehrfach der Universität, Zahnmedizinische Mitteilungen, Vol. 86, No. 22, 82-83. |
|  |  | Aiken B, Bartelt D, Hoffman N, Marino T, **Schleyer T**. Report from a Committee of Hope, Change, March 1995, 48-52. |

**Grant awards (research and training)**

**Submitted**

|  |  |
| --- | --- |
| Funding Agency: | National Library of Medicine |
| Title | Helping address physician burnout through a method for generating problem-oriented views of health information in electronic health records |
| Grant Number: | R01 |
| Principal Investigator: | Schleyer, Titus; Holden, Richard |
| Role on Grant: | Co-PI |
| Years Inclusive: | 12/1/2020 – 11/30/2024 |
| Percent Effort: | 14 |
| Total Direct Costs: | $1,000,000 |
|  |  |
| Funding Agency: | National Library of Medicine |
| Grant number: | R01 |
| Title | Balancing benefit, harm and cost: Leveraging electronic health record (EHR) data to improve drug utility in patient populations |
| Principal Investigator: | Lang Li, PhD; Titus K. Schleyer, DMD, PhD  |
| Role on Grant: | Co-PI |
| Years Inclusive: | 07/01/2019 – 06/30/2023 |
| Percent Effort: | 15 |
| Total Direct Costs: | $2,887,919 |

**Current**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| --- |
| Funding Agency: |
| Title |
| Grant Number: |
| Principal Investigator: |
| Role on Grant: |
| Years Inclusive: |
| Percent Effort: |
| Total Direct Costs: |

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|  |
| --- |
| Agency for Healthcare Research and Quality |
| Improving healthcare processes and outcomes by directly integrating health information exchange data in the clinical workflow |
| 1R01HS027185-01A1 |
| Schleyer, Titus |
| PI |
| 7/1/2020 – 6/30/2023 |
| 20 |
| $755,660 |

 |
|  |  |
| Funding Agency: | Regenstrief Institute |
| Title of Grant: | Disease course analysis of COVID-19 inpatients using large-scale EHR data |
| Principal Investigator: | Schleyer, Titus; Ning, Xia |
| Role on Grant: | Co-PI |
| Years Inclusive: | 7/1/2020 - 12/31/2020 |
| Total Direct Costs: | $20,000 |
|  |  |
| Funding Agency: | National Library of Medicine |
| Grant Number: | R01LM012605-03S1 |
| Title Grant: | Characterizing COVID-19 patients through a community health information exchange and EHR databases |
| Principal Investigator: | Schleyer, Titus; Ning, Xia |
| Role on Grant: | Co-PI |
| Years Inclusive: | 07/01/20 - 04/30/21 |
| Percent Effort: | 5 |
| Total Direct Costs: | $74,999 |
| Funding Agency: | National Institute of Mental Health |
| Grant Number: | 1UF1MH121949-01 |
| Title of Grant: | Patient-centered team-based primary care to treat opioid use disorder, depression, and other conditions: The MI-CARE\* study  |
| Principal Investigator: | DeBar, Lynn; Bradley, Katherine |
| Role on Grant | Co-I |
| Years Inclusive: | 09/12/2019 – 05/31/2024 |
| Percent Effort: | 10 |
| Total Direct Costs: | $10,034,792 |
|  |  |
| Funding Agency: | Cook |
| Grant Number: | AIM102 |
| Title of Grant: | Chronic Wound Care Registry to Improve Outcomes |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 04/01/2020 - 03/31/2021 |
| Percent Effort: | 1 |
| Total Direct Costs: | $149,981 |
| Funding Agency: | Hitachi Corporation |
| Grant Number: | - |
| Title of Grant: | Clinical Decision Support System (CDSS) to Optimize Disease Management |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI  |
| Years Inclusive: | 6/28/2019 – 3/31/2020 |
| Percent Effort: | 5 |
| Total Direct Costs: | $183,500 |
|  |  |
| Funding Agency: | National Center for Advancing Translational Sciences |
| Grant Number: | 5UL1TR002529-02 |
| Title of Grant: | Clinical and Translational Science Award |
| Principal Investigator: | Shekhar, Anantha |
| Role on Grant: | Co-I |
| Years Inclusive: | 5/2018 - 4/2023 |
| Percent Effort: | 20 |
| Total Direct Costs: | $5,264,717 |
|  |  |
| Funding Agency: | IU Grand Challenge – Addictions |
| Title:  | Advanced Analytics for IU’s Addictions Grand Challenge  |
| Principal Investigator: | Schleyer, Titus; Börner, Katy |
| Role on Grant: | Co-PI |
| Years Inclusive: | 09/01/18 - 06/30/22 |
| Percent Effort: | 10 |
| Total Direct Costs: | $1,482,109 |
|  |  |
| Funding Agency: | National Library of Medicine |
| Title of Grant: | The Indiana Training Program in Public & Population Health Informatics |
| Principal Investigator: | Schleyer, Titus; Dixon, Brian |
| Role on Grant: | Co-PI |
| Years Inclusive: | 07/01/2017 - 06/30/2022 |
| Percent Effort: | 15 |
| Total Direct Costs: | $2,430,250  |
|  |  |
| Funding Agency: | National Library of Medicine |
| Grant Number: | R01LM012605 |
| Title Grant: | Enhancing information retrieval in electronic health records through collaborative filtering |
| Principal Investigator: | Schleyer, Titus; Ning, Xia |
| Role on Grant: | Co-PI |
| Years Inclusive: | 06/01/18 - 04/30/21 |
| Percent Effort: | 30 |
| Total Direct Costs: | $2,030,567 |
| Funding Agency: | IU Health |
| Grant Number: | AIM002, Prop ID. 18-0425-3R |
| Title Grant: | Development of the Indiana Learning Health Systems Initiative (ILHSI) |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 03/01/18-02/28/20 |
| Percent Effort: | 20 |
| Total Direct Costs: | $299,987  |
|  |  |
| Funding Agency: | Lilly Endowment-IUSM |
| Grant Number: | 20091568000 |
| Title Grant: | The Physician Scientist Initiative (PSI) |
| Principal Investigator: | Hess, Jay |
| Role on Grant: | Faculty |
| Years Inclusive: | 05/01/13-12/31/20 |
| Percent Effort: | 25 |
| Total Direct Costs: | $1,875,000 |
|  |  |
| Funding Agency: | Indiana Biosciences Research Institute |
| Grant Number: | KC068498-00002B |
| Title of Grant: | Computational phenotyping for Type 2 Diabetes |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI  |
| Years Inclusive: | 89/1/2016 - 6/30/2020 |
| Percent Effort: | 5 |
| Total Direct Costs: | $76,435 |

**Completed**

|  |  |
| --- | --- |
| Funding Agency: | hc1.com |
| Title of Grant: | Business and strategy development |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 5/1/2016 – 7/31/2019 |
| Percent Effort: | 5 |
| Total Direct Costs: | $150,000 |
|  |  |
| Funding Agency: | Methodist Health Foundation |
| Title of Grant: | FHIR Based Health Information Exchange |
| Principal Investigator: | Schaffer, Jason |
| Role on Grant: | Co-I |
| Years Inclusive: | 12/17/2017 – 12/31/2018 |
| Percent Effort: | 5 |
| Total Direct Costs: | $250,000 |
|  |  |
| Funding Agency: | National Institute of Drug Abuse |
| Grant number: | R43 |
| Title of Grant: | Combating the opioid epidemic with big data analytics and a live, nationwide dashboard |
| Principal Investigator: | Deximo, Christina; Schleyer, Titus |
| Role on Grant: | Co-PI |
| Years Inclusive: | 04/01/2018 – 3/31/2019 |
| Percent Effort: | 5 |
| Total Direct Costs: | $150,000 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | 5U19DE022516-03 |
| Title of Grant: | Leveraging electronic dental record data (EDR) for clinical research |
| Principal Investigator: | G. Gilbert/T. Thyvalikakath |
| Role on Grant: | Co-I |
| Years Inclusive: | 1/1/2015 - 6/30/2018 |
| Percent Effort: | 3 |
| Total Direct Costs: | $680,363 |
| Total Amount Awarded: | $1,162,835 |
|  |  |
| Funding Agency: | National Library of Medicine |
| Title of Grant: | Administrative supplement for T15 programs |
| Principal Investigator:  | Schleyer, Titus; Dixon, Brian  |
| Role on Grant:  | Co-PI |
| Years Inclusive:  | 9/01/2017 – 6/30/2018 |
| Percent Effort:  | 10 |
| Total Direct Costs:  | $100,000 |
|  |  |
| Funding Agency: | IU Office of the Vice Chancellor for Research |
| Title of Grant: | Commercializing enhanced information retrieval in electronic health records (EHR) |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI  |
| Years Inclusive: | 01/01/17 - 06/30/18 |
| Percent Effort: | 5 |
| Total Direct Costs: | $35,000 |
|  |  |
| Funding Agency: | NIH |
| Grant Number: | NIH-NCATS UL1TR001108 |
| Title of Grant: | Clinical and Translational Science Award |
| Principal Investigator: | Shekhar, Anantha |
| Role on Grant: | Co-I |
| Years Inclusive: | 11/2013 - 4/2018 |
| Percent Effort: | 5 |
| Total Direct Costs: | $4,476,428 |
|  |  |
| Funding Agency: | Merck |
| Title of Grant: | Evaluating unmet need for dyslipidemia patients managed by statin therapy through a retrospective analysis of a US electronic medical records database |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 9/1/2016 – 8/31/2017 |
| Percent Effort: | 15 |
| Total Direct Costs: | $250,000 |
|  |  |
| Funding Agency: | NIDCR |
| Grant Number: | R03 DE023358 |
| Title of Grant: | Analysis of restoration longevity in elderly patients using electronic dental records |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 9/25/2013 - 8/31/2016 |
| Percent Effort: | 2.5 % |
| Total Amount Awarded: | $312,584 |
|  |  |
| Funding Agency: | Regenstrief Institute |
| Title of Grant: | Generalizing advanced text mining (ATM) for clinical chart review |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 4/1/2016 - 7/31/2016 |
| Total Direct Costs: | $22,059 |
|  |  |
| Funding Agency: | Merck |
| Title of Grant: | Kroger consumer data pilot project |
| Principal Investigator: | J. Leventhal |
| Role on Grant: | Co-I |
| Years Inclusive: | 1/1/2016 - 6/30/2016 |
| Percent Effort: | donated |
| Total Amount Awarded: | $50,000 |
|   |  |
| Funding Agency: | Regenstrief Institute |
| Title of Grant: | Pilot study for ontology-based analysis of INPC data |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years Inclusive: | 2013 - 2014 |
| Total Amount Awarded: | $25,000 |
|  |  |
| Funding Agency: | NLM/NIDCR |
| Title of Grant: | Dental Informatics Training Grant |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2012 - 2017 |
| Total Direct Costs: | $600,000 |
|  |  |
| Funding Agency: | NCRR |
| Grant Number: | 3UL1RR024153 |
| Title of Grant: | Clinical and Translational Institute, Online Research Community |
| Principal Investigator: | Reis, Steve |
| Role on Grant: | Co-I |
| Years: | 2011 - 2016 |
| Total Direct Costs: | $607,005 |
|   |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE21178 |
| Title of Grant: | Data extraction using electronic dental records in dental practice-based research networks |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years: | 2011 - 2013 |
| Total Direct Costs: | $275,000 |
|   |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE021494 |
| Title of Grant: | Implementing research findings and evidence-based interventions into real-world dental practice settings |
| Principal Investigator: | Spallek, Heiko |
| Role on Grant: | Co-I |
| Years: | 2011 - 2013 |
| Total Direct Costs: | $269,840 |
|   |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE019683 |
| Title of Grant: | A standard information model for general dental records |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years: | 2010 - 2012 |
| Total Direct Costs: | $289,737 |
|   |  |
| Funding Agency: | NLM/NIDCR |
| Grant Number: | 5 T15 LM007059 |
| Title of Grant: | Dental Informatics Training Grant |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2007 - 2012 |
| Total Direct Costs: | $466,077 |
|   |  |
| Funding Agency: | NIDCR |
| Grant Number: | 5 RC1 DE020295 |
| Title of Grant: | Computer-assisted guidance for tobacco dependence interventions in dental offices |
| Principal Investigator: | Rindal, Brad |
| Role on Grant: | Consultant |
| Years: | 2010 - 2012 |
| Total Direct Costs: | $20,000 |
|  |  |
| Funding Agency: | NCRR |
| Grant Number: | U24 RR029822 |
| Title of Grant: | Digital Vita Documents for VIVO |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI (multiple) |
| Years: | 2011 - 2011 |
| Total Amount Awarded: | $78,000 |
|   |  |
| Funding Agency: | NIH |
| Grant Number: | 3 T15 LM007059 |
| Title of Grant: | Curriculum supplement to Pittsburgh Biomedical Informatics Training Grant |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2010 - 2011 |
| Total Direct Costs: | $200,000 |
|   |  |
| Funding Agency: | NIH |
| Grant Number: | 3 T15 LM007059 |
| Title of Grant: | Administrative supplement for T-15 restoration slots |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2009 - 2011 |
| Total Direct Costs: | $983,451 |
|   |  |
| Funding Agency: | NCRR |
| Grant Number: | 1UL1RR024153 |
| Title of Grant: | Clinical and Translational Institute, Online Research Community |
| Principal Investigator: | Reis, Steve |
| Role on Grant: | Co-I |
| Years: | 2006 - 2011 |
| Total Direct Costs: | $593,778 |
|   |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE018548 |
| Title of Grant: | A controlled terminology for diagnoses and findings in general dentistry |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years: | 2007 - 2010 |
| Total Direct Costs: | $215,372 |
|   |  |
| Funding Agency: | NIH Challenge Grant program (RC1) |
| Grant Number: | K12 HD049109 |
| Title of Grant: | NIH Roadmap Multidisciplinary Clinical Research Career Development Award Grant |
| Role on Grant: | Mentee: Thankam Thyvalikakath |
| Years: | 2005 - 2010 |
| Total Direct Costs: | $602,007 |
|   |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE018158 |
| Title of Grant: | Feasibility of a natural language processing-based dental charting application |
| Principal Investigator: | Chapman, Wendy |
| Role on Grant: | Co-I |
| Years: | 2007 - 2009 |
| Total Direct Costs: | $290,940 |
|   |  |
| Funding Agency: | NLM |
| Grant Number: | G08 LM008667 |
| Title of Grant: | Dental Informatics Online Community |
| Principal Investigator: | Spallek, Heiko |
| Role on Grant: | Co-I |
| Years: | 2006 - 2009 |
| Total Direct Costs: | $280,000 |
|   |  |
| Funding Agency: | NIDCR |
| Grant Number: | R21 DE017325 |
| Title of Grant: | Development of electronic dental records for translating research into practice |
| Principal Investigator: | Rindal, Brad |
| Role on Grant: | Consultant |
| Years: | 2007 - 2009 |
| Total Direct Costs: | $20,000 |
|   |  |
| Funding Agency: | NLM/NIDCR |
| Title of Grant: | Dental Informatics Training Grant |
| Principal Investigator: | Crowley, Rebecca |
| Role on Grant: | Co-I |
| Years: | 2002 - 2007 |
| Total Direct Costs: | $744,170 |
|   |  |
| Funding Agency: | NIDCR |
| Grant Number: | U54 DE014257 |
| Title of Grant: | NYU Oral Cancer Research for Adolescent and Adult Health Promotion Center |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | Co-I |
| Years: | 2001 - 2007 |
| Total Direct Costs: | $403,281 |
|   |  |
| Funding Agency: | University of Pittsburgh Advisory Council on Instructional Excellence |
| Title of Grant: | Interactive features for computing in dentistry |
| Years: | 2003 - 2004 |
| Total Direct Costs: | $14,138 |
|   |  |
| Funding Agency: | NIDCR/NLM |
| Grant Number: | R13 DE014611 |
| Title of Grant: | Conference: Dental informatics and dental research |
| Principal Investigator: | Schleyer, Titus |
| Role on Grant: | PI |
| Years: | 2002 - 2004 |
| Total Direct Costs: | $35,000 |
|   |  |
| Funding Agency: | NLM/NIDCR |
| Grant Number: | LM-96-002 |
| Title of Grant: | Dental Informatics Training Grant |
| Role on Grant: | Co-I |
| Years: | 1997 - 2002 |
| Total Direct Costs: | $480,000 |
|   |  |
| Funding Agency: | Dentrix Dental Systems |
| Title of Grant: | Survey of dental students regarding computer technology in dentistry |
| Years: | 2000 |
| Total Direct Costs: | $1,500 |
|   |  |
| Funding Agency: | American Dental Education Association Council of Sections Project Pool |
| Title of Grant: | Educational computing in dentistry competition |
| Role on Grant: | PI (multiple) |
| Years: | 2000 - 2001 |
| Total Direct Costs: | $10,530 |
|   |  |
| Funding Agency: | Temple University, |
| Title of Grant: | Academic Equipment Fund |
| Years: | 1997, 2000 |
| Total Direct Costs: | $35,280 |
|   |  |
| Funding Agency: | Temple University |
| Title of Grant: | Digital Radiology, Distance Learning Pilot Project |
| Years: | 1997 |
| Total Direct Costs: | $7,000 |
|   |  |
| Funding Agency: | Procter & Gamble |
| Title of Grant: | Temple University School of Dentistry Online, in-kind support |
| Years: | 1996-1997 |
| Total Direct Costs: | $10,000 |
|   |  |
| Funding Agency: | Temple University |
| Title of Grant: | Distance Learning Pilot Project |
| Years: | 1996 |
| Total Direct Costs: | $10,000 |
|   |  |
| Funding Agency: | American Fund for Dental Health |
| Title of Grant: | Dental School Clinical Database Consortium Assistance Project |
| Role on Grant: | Co-I |
| Years: | 1991 - 1993 |
| Total Direct Costs: | $32,000 |
|   |  |
| Funding Agency: | Temple University |
| Title of Grant: | Computer and Technology Fee |
| Years: | 1992 -1993, 1996 - 1999 |
| Total Direct Costs: | $311,300 |
|   |  |
| Funding Agency: | Academic Enhancement Fund, Temple University |
| Title of Grant: | Multimedia CD ROM for Dental and Skeletal Development as Enhancement for Graduate and Undergraduate Instruction in Orofacial Growth and Development |
| Years: | 1992 |
| Total Direct Costs: | $35,000 |

**Patents**

|  |  |
| --- | --- |
| 1/4/2018 | IURTC-XXXX: Information integration between health information exchanges and electronic health records |
| 8/28/2017 | IURTC-2018-031-01-US: Electronic health record data to improve drug utility |
| 11/13/2017 | Patent Application No. PCT/US2017/061254 (based on US Patent Application No. 62/420,281 filed 11/10/2016): Person-centered health record architecture |
| 9/6/2017 | Patent Application No. PCT/US2017/050306 (based on US provisional No. 62/383,655 filed 9/6/2016): Systems and methods for accessing, combining and collaborative filtering of information from multiple electronic health records |

**Other scholarly activities**

**Editorial board(s)**

|  |  |
| --- | --- |
| 2010 - 2012 | Member, editorial board, Computers in Biology and Medicine |
| 2008 - 2010 | Member, editorial board, Journal of the American Dental Association |
| 2002 - 2013 | Coordinator, Software reviews, Journal of Dental Education |
| 2000 - 2002 | Guest editor, Dental Clinics of North America |
| 1999 - 2008 | Inaugural Associate Editor for Informatics and Technology, Journal of the American Dental Association |
| 1999 | Guest editor, Journal of the American College of Dentists |
| 1997 - 2000 | Member, Scientific Committee, Virtual Journal of Orthodontics |

**Manuscript review**

|  |  |
| --- | --- |
| 2020 | Reviewer, Journal of General Internal Medicine |
| 2019 | Reviewer, Journal of the American Medical Informatics Association Open |
| 2015 | Reviewer, Applied Clinical Informatics |
| 2012 - 2013 | Reviewer, Journal of Public Health Dentistry |
| 2011 - 2013 | Reviewer, Journal of the American Dental Association |
| 2009 | Reviewer, Community Dentistry and Oral Epidemiology |
| 2008 - present | Reviewer, Journal of the American Medical Informatics Association |
| 2008 | Reviewer, Journal of Medical Systems |
| 2007 | Reviewer, BMC Medical Education |
| 2006 | Reviewer, Acta Biomaterialia |
| 2006 - present | Reviewer, International Journal of Medical Informatics |
| 2005 | Reviewer, BMC Medical Research Methodology |
| 2004 | Reviewer, Journal of Clinical Epidemiology |
| 2002 - 2008 | Reviewer, Journal of Medical Internet Research |
| 2002 | Reviewer, Journal of Dental Research |
| 2002 - 2005 | Reviewer, The Journal of Contemporary Dental Practice |
| 1999 - 2010 | Reviewer, Journal of Dental Education |
| 1999 - 2002 | Reviewer, Dentalcare.com |
| 1999 | Reviewer, Quintessence International |
| 1998 | Reviewer, Journal of Prosthodontics |

**Grant review**

|  |  |
| --- | --- |
| 2020 | Reviewer, Wellcome Trust |
| 2020 | Reviewer, Center for Scientific Review, Healthcare Delivery and Methodology Integrated Review Group (ZRG1 HDM-K (56)) |
| 2015, 2016, 2019 - 2020 | Reviewer, NCATS CTSA |
| 2018 - 2019 | Reviewer, National Library of Medicine Biomedical Informatics, Library and Data Sciences |
| 2017 | Reviewer, National Library of Medicine Special Emphasis Panel (ZLM1 ZH-C (01)) |
| 2016 | Indiana University Health Values Fund, Research Grants |
| 2014 | Reviewer, NIH BCHI |
| 2011 | Reviewer, National Institute of Dental and Craniofacial Research (ZRG1 MOSS-K(11))) |
| 2011 | Reviewer, National Center for Research Resources (ZRR1 CR-3 (01)) |
| 2010 | Reviewer, National Center for Research Resources (ZRR1 CR-1 (01)) |
| 2010 | Reviewer, National Institute of Dental and Craniofacial Research (ZDE1 MK 08) |
| 2009 | Mail reviewer, NIH Challenge Grant program (RC1) |
| 2008 | Reviewer, NIDCR Special Emphasis Panel, Musculoskeletal, Oral & Skin Sciences IRG |
| 2006 | Reviewer, Technology Enhanced Learning initiative, UK Economic and Social Research Council |
| 2003 - 2004 | Reviewer, NIDCR Special Emphasis Panel, Musculoskeletal, Oral & Skin Sciences IRG |
| 2000 | Reviewer, NIDCR RFP: Dental and Craniofacial Data Resource Center, National Heart, Lung, and Blood Institute |
| 1996 | Grant reviewer, Agency for Health Care Policy and Research |
| 1994 - 1995 | Grant reviewer, National Library of Medicine and Agency for Health Care Policy and Research |

**Conference planning & review**

|  |  |
| --- | --- |
| 2020 | Organizer, AMIA/HL7 Fast Healthcare Interoperability Resources (FHIR) Applications Competition |
| 2019 | Reviewer, AMIA Clinical Informatics Conference  |
| 2018 | Reviewer, AMIA Informatics Summit |
| 2018 - 2019 | Organizer, AMIA/HL7 Inaugural Fast Healthcare Interoperability Resources (FHIR) Applications Showcase |
| 2016 | Lead Organizer, “Indiana’s Opportunities to Lead in Digital Health” |
| 2013 | Member, AMIA, Policy Invitational Planning Committee |
| 2012 - 2013 | Vice-chair, Applications Track, 2013 Annual Symposium, American Medical Informatics Association |
| 2012 - 2013 | Chair, 2013 Winter Symposium Program Committee, American College of Medical Informatics |
| 2011 | Member, Program Committee, 2012 ACM SIGHIT International Health Informatics Symposium |
| 2011 | Reviewer, AMIA Annual Symposium |
| 2007 - 2009 | Reviewer, AMIA Annual Symposium |
| 2005 | Reviewer, AMIA Annual Symposium |
| 2002 - 2003 | Director, conference “Dental Informatics and Dental Research: Making the Connection” |
| 2003 | Reviewer, AMIA Annual Symposium |
| 1996 | Reviewer, Posters, AADS Annual Session |

**Other review activities**

|  |  |
| --- | --- |
| 2018 | Judge, 2018 AMIA Pitch IT Competition |
| 2011 | Reviewer, IRB protocol pre-review, School of Dental Medicine |
| 2006 | Member, Macy Foundation Study: Curriculum Panel on Diagnosis and Primary Care |
| 2000 - 2002 | Chair, Consortium of National Coordinators, MedLive, Quintessence Publishing |
| 2002 | Judge, The 2002 Excellence in E-Learning Awards, Brandon-Hall and Online Learning Magazine |
| 2002 | Ad hoc reviewer, Contracts, National Library of Medicine |

**Invited presentations**

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|  |  | McKinley C, Parker M, **Schleyer T**, Crosley S. Research and big data (Panel). Presented at: Indianapolis Regional Healthcare Compliance Virtual Conference; 2020 Sept 25 (online)**Schleyer T**. Advanced Analytics for Indiana University’s Addictions Grand Challenge, University of Pittsburgh Public Health Dynamics Lab Seminar Series. 2019 Jun 3 (online) |
|  |  | **Schleyer T**, Schaffer J, Ning X, Kelley K, Kochmann M, Finnell JT and the *FHIR-on-INPC Development Team*, SMART on FHIR: Integrating HIE Data into EMR Workflow (Part III), Scottsdale Institute Teleconference, 2019 May 8 (online) |
|  |  | **Schleyer TK**. Vision for and early implementation of the Indiana Learning Health Systems Initiative (ILHSI). The Ohio State University. 2018 Aug 17. Columbus, OH |
|  |  | Kochmann M, Seitz D, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the FHIR-on-INPC Development Team. FHIR HIEdrant: Making big data actionable at the point of care. Medstartr Momentum. 2017 Nov 30 - Dec 1. New York, NY |
|  |  | Kochmann M, Seitz D, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the FHIR-on-INPC Development Team. FHIR HIEdrant: Making big data actionable at the point of care”, Healthcare Informatics Webinar, 2017 Nov 28 |
|  |  | Kochmann M, Seitz D, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the FHIR-on-INPC Development Team. FHIR HIEdrant: Making big data actionable at the point of care, Xtelligent Media Values Based Care Summit, 2017 Nov 17, Boston, MA. |
|  |  | Kochmann M, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the FHIR-on-INPC Development Team. You’ve got mail. Next generation of health information exchange, Healtcare IT Summit, 2017 Oct 20, Raleigh, NC. |
|  |  | **Schleyer T**, Combating the opioid epidemic with big data analytics and a live, nationwide dashboard, Modeling the opioid epidemic, University of Pittsburgh, 2017 Oct 2; Pittsburgh, PA. |
|  |  | **Schleyer TK**. Building integrated clinical dashboards using FHIR, 2017 Health IT Summit, Cleveland, OH, 2017 Mar 23-24; Cleveland, OH. |
|  |  | **Schleyer TK**, Martin D, Mamlin B. Leveraging FHIR to create a patient-centric electronic health record. Presented at: HL7 Partners in Interoperability; 2016 Oct 19; Baltimore, MD. |
|  |  | **Schleyer TK**, Beyond health information exchange as we know it: From disease to health. Presented at: Indy Big Data Conference; 2016 Sep 1; Indianapolis, IN. |
|  |  | **Schleyer TK**, Hui S. Discovering connections among 4 billion health data points, starting with two. Presented at: Spring 2015 Network Science Talks; 2015 Feb 2; Bloomington, IN. |
|  |  | **Schleyer TK**. Informatics/big data uses challenges in the life sciences. Presented at: Kelly School of Business Life Sciences Seminar; 2014 May 9; Indianapolis,IN. |
|  |  | **Schleyer TK**. Clinical informatics research at the Regenstrief Institute and beyond. Presented at: School of Informatics and Computing Colloquia Series; 2013 Nov 8; IUPUI. |
|  |  | **Schleyer TK**. Changing the world of dentistry with dental informatics. Presented at: 2nd World Virtual Congress of Dental Students; 2012 May 9-11. |
|  |  | **Schleyer TK**, Butler BS, Song M, Spallek H. Conceptualizing and advancing research networking systems. Presented at: ACM SIGCHI Conference on Human Factors in Computing Systems; 2012 May 5-10; Austin, TX. |
|  |  | **Schleyer TK**, Butler BS, Song M, Spallek H. The dawn of research networking: A proposed research agenda. Presented at: Second Annual VIVO Conference; 2011 Aug 24-26; Washington, DC. |
|  |  | **Schleyer TK**. Dental informatics: Time to join the revolution? Presented at: Student Research Group Grand Rounds; 2010 Oct 24; University of Pittsburgh, School of Dental Medicine. |
|  |  | **Schleyer TK**. Improving information technology support for oral medicine: A proposed agenda. Presented at: European Association of Oral Medicine; 2010 Sep 23-25; London, UK. |
|  |  | Conlon M, **Schleyer TK**, Smith M, Warden M, Weber GM. Research networking (Panel). Presented at: VIVO National Conference; 2010 Aug 12-13; New York Hall of Science, New York, NY. |
|  |  | **Schleyer TK**. Digital Vita: Research networking in the context of CV management. Presented at: VIVO National Conference; 2010 Aug 12-13; New York Hall of Science, New York, NY. |
|  |  | **Schleyer TK**. Engineering a revolution: A research agenda for dental informatics. Presented at: Scientific Seminar Series; 2010 Jul 21; Marshfield, WI. |
|  |  | **Schleyer TK**. Improving oral health with informatics. Presented at: Annual Meeting of the American Association of Dental Consultants; 2010 May 5-8; San Diego, CA. |
|  |  | **Schleyer TK**. Digital Vita: Facebook for Scientists. Presented at: School of Information Sciences Council Colloquium; 2010 Mar 19; University of Pittsburgh. |
|  |  | **Schleyer TK**. Impact of biomedical informatics on dental education, practice and research. Presented at: 100th Anniversary, National Autonomous University of Mexico; 2008 Nov 19; Mexico City. |
|  |  | **Schleyer TK**. Information technology in clinical practice: Opportunities and challenges. Presented at: ADA Board of Trustees meeting; 2005 Apr 17; Chicago, IL. |
|  |  | **Schleyer TK**. Information technology in dental practice. Presented at: ADA Dental Economics Advisory Group Meeting; 2005 Mar 3; Chicago. |
|  |  | **Schleyer TK**. Panel: Scientific careers in oral and craniofacial research. Presented at: Beyond your Bench, National Institute of Dental and Craniofacial Research; 2003 Jul 11. |
|  |  | **Schleyer TK**. Applied informatics in dentistry. Presented at: Beyond your Bench, National Institute of Dental and Craniofacial Research; 2003 Jul 11. |
|  |  | **Schleyer TK**. Challenges for dental informatics. Presented at: FDI Congress; 2002 Oct 3; Vienna, Austria. |
|  |  | **Schleyer TK**. Dental informatics: Challenges for the Twenty-first Century. Presented at: Symposium on the Future of Dentistry; 2002 Sep 22; Boston University, Boston, MA. |
|  |  | **Schleyer TK**, Freitas R. Nanotechnology in dentistry [German]. Presented at: 47. Zahnärztetag der Zahnärztekammer Westfalen-Lippe; 2001 Mar 17; Bad Salzuflen, Germany. |
|  |  | **Schleyer TK**. Online continuing education --The path to the future [German]. Presented at: 47. Zahnärztetag der Zahnärztekammer Westfalen-Lippe; 2001 Mar 17; Bad Salzuflen, Germany. |
|  |  | **Schleyer TK**. Concepts of quality in education -- Results of an online education programme analysis. Presented at: G8 Global Healthcare Applications Final Conference; 2000 May 5; Berlin, Germany. |
|  |  | **Schleyer TK**. Dentistry and information technology. Presented at: ADA Board of Trustees Planning Meeting; 1999 Dec 6; Chicago, IL. |
|  |  | **Schleyer TK**. The way ahead. Presented at: 2nd International Conference on Computers in Dental Education and Practice; 1999 Sep 6; London. |
|  |  | **Schleyer TK**. Information technology in dentistry. Presented at: Board of Trustees of the American Dental Association; 1998 Dec 6; Chicago, IL. |
|  |  | **Schleyer TK**, Johnson L. Standards for instructional software. How does multimedia change dental education? Presented at: KAVO GmbH; 1998 Oct 22; Lindau, Germany. |
|  |  | **Schleyer TK**. Continuing education in cyberspace. Presented at: Section of Oral and Maxillofacial Surgery, AADS Annual Session; 1998 May; Minneapolis, MN. |
|  |  | **Schleyer TK**. Dental informatics -- an emerging discipline. Presented at: Meeting of the Medical Libraries Association, American Medical Informatics Association Spring Congress; 1998 May. |
|  |  | **Schleyer TK**. Development of a dental informatics curriculum. Presented at: International Conference on Computer Applications in Dental Practice and Education; 1996 Oct. |
|  |  | **Schleyer TK**. Choosing computer systems for dental schools. Presented at: Canadian Dental Association Teaching Conference; 1995 Oct; Vancouver, BC. |
|  |  | **Schleyer TK**. The digital revolution: Are we in control? Presented at: American College of Dentists Infotech Conference; 1995 Jul. |
|  |  | **Schleyer TK**. The future of computers in dentistry. Presented at: Meeting of the AADS Section of Clinic Administrators; 1994 Oct. |

**Other presentations**

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|  |  | **Schleyer T**, Ruppert R, Rivera R. Health Dart. Health Services Research Work-in-Progress, Regenstrief Institute. 2020 Dec 4; Indianapolis, IN. |
|  |  | **Schleyer T**, Hightower M, Harle CA, Landman A, Rudin RS, Healthcare delivery systems, EHRs, and the future of an app-based ecosystem: Old wine in new bottles? AMIA 2020 Annual Symposium. 2020 Nov 14-18. (online) (accepted). |
|  |  | **Schleyer T**, Advanced Analytics for IU’s Addiction Grand Challenge (A2AGC): Responding to the opioid addiction crisis. Health Services Research Work-in-Progress, Regenstrief Institute. 2020 Feb 7; Indianapolis, IN. |
|  |  | **Schleyer T**.Opportunities in the pharmacy and pharmacology space within the Indiana Learning Health System Initiative (ILHSI). Center for Computational Biology and Bioinformatics.2019 Sept 16. Indianapolis, IN. |
|  |  | **Schleyer T**, Helping clinicians cope with information overload. Regenstrief Institute Startup Exploration (RISE) Session. 2019 July 10. Indianapolis, IN |
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 |  | **Schleyer T**, Williams L. The IUH Learning Health Systems Initiative: Current status and opportunity for involvement. Health Services Research Work-in-Progress, Regenstrief Institute. 2019 Apr 5. Indianapolis, IN |
|  |  | **Rivera RL**,Schleyer TK. Food matters for health: Does healthcare care? Regenstrief Institute Work-in-Progress. 2019 May 22. Indianapolis, IN |
|  |  | **Schleyer T**, Williams L. Progress towards the Indiana Learning Health System Initiative (ILHSI). Regenstrief Institute Work-in-Progress. 2018 Dec 12. Indianapolis, IN |
|  |  | Mathews M, Collins K, Thomas PB, Qi R, Pradhan MP, König H, Huschto T, Petrich W, **Schleyer T**, McAhren S, and Robertson DH. Understanding Type 2 Diabetes Patient Sub-Groups through Electronic Medical Records. 2018 Indiana Life Sciences Summit. 2018 Oct 9. Indianapolis, IN |
|  |  | Mathews M, Collins K, Thomas PB, Qi R, Pradhan MP, König H, Huschto T, Petrich W, **Schleyer T**, McAhren S, Robertson DH. Understanding Type 2 Diabetes Patient Sub-Groups through Electronic Medical Records*.* Lilly’s All-Research Grand Rounds Meeting. 2018 Aug 29. Indianapolis, IN |
|  |  | Duncan WD, Thyvalikakath TP, Siddiqui Z, LaPradd M, Wen C, Roberts A, Hood D, **Schleyer T**, Manimangalam A, Rindal DB, Jurkovich MW, Shea TL, Bogacz D, Yu T, Fellows JL, Gordan VV, Gilbert GH and the National Dental PBRN Collaborative Group. Using the *Oral Health and Disease Ontology* to study dental outcomes in National Dental PBRN practices. 2018 International Conference on Biological Ontology. 2018 August 7-10. Corvallis, OR. |
|  |  | Nguyen KA, Li L, Yazdanparast A, Wang L, Kreutz RP, Whipple EC, **Schleyer T**. Statin-induced myopathy: A comprehensive assessment of risk factors. American Association of Colleges of Pharmacy. Boston, MA. July 2018 |
|  |  | Kochmann M, Rahurkar S, Schaffer J, Kelley K, *FHIR Development Team*, **Schleyer T**. , One-click Integration of Information from the Indiana Network for Patient Care with Cerner, Indiana School of Medicine 3rd Annual Patient Safety and Quality Day. , Indianapolis, Indiana. , 2018 April 6 |
|  |  | **Schleyer T**, Bueker A, Wolfgang J. hc1 Opioid Dashboard, Analysis and Visualization of Addiction Data, Phase 2 of IU’s Addictions Grand Challenge2018 Feb 26, Bloomington, IN |
|  |  | **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Kochmann M, Finnell JT and the FHIR-on-INPC Development Team, Enabling interoperability between EHRs and health information exchanges using the Fast Healthcare Interoperability Resources (FHIR) standard. , ACMI Winter Symposium 2018. , 2018 Feb 4., Scottsdale, AZ (accepted). |
|  |  | Rahurkar S, **Schleyer T**, Schaffer J, Kelley K, Kochmann M and the *FHIR-on-INPC Development Team*, Fast Healthcare Interoperability Resources (FHIR) on the INPC: A new platform for applied research, Presented at: Regenstrief Work in Progress. ; 2018 Jan 10. ; Indianapolis, IN. |
|  |  | **Schleyer T**, Hui S, Wang J, Zhang Z, Knapp K, Baker J, Chase M, Boggs R, Simpson R, Evaluating unmet treatment need for dyslipidemia patients managed by lipid-modifying therapy using the Indiana Network for Patient Care (INPC). Presented at: Regenstrief Work in Progress. ; 2017 Dec 20.; Indianapolis, IN. |
|  |  | **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Kochmann M, Finnell JT and the FHIR-on-INPC Development Team, FHIR HIEdrant: Making big data actionable at the point of care. , HL7 FHIR Applications Roundtable. , 2017 Dec 6- and 7. , New Orleans, LA. |
|  |  | Kochmann M, **Schleyer T**, Schaffer J, Kelley K, Martin D, Ning X, Finnell JT and the *FHIR-on-INPC Development Team*, FHIR HIEdrant, Presented at: Regenstrief Work in Progress. ; 2017 Nov 1. ; Indianapolis, IN. |
|  |  | **Schleyer T**, Kochmann M, Martin D, Schaffer J, Finnell JT, Ning X, Seitz D. Unlocking data in the Indiana Network for Patient Care through FHIR (Fast Healthcare Interoperability Resources). , Work-in-Progress presentation. , VA Health Services Research and Development. , 2017 Sept 29.; Indianapolis, IN. |
|  |  | McAhren S, **Schleyer TK**, Robertson D, Petrich W, Pradhan MP, Mathews M, Bilo Thomas P, Huschto T. , Uncovering the multiple paths of Type 2 Diabetes disease progression from electronic health records. , Indy Big Data Conference 2017. , 2017 Sept 14. ; Indianapolis, IN. |
|  |  | **Schleyer TK**, Ning X, Martin D. Leveraging search patterns in electronic health records to make information retrieval more efficient., AMIA iHealth 2017 Conference. , 2017 May 3; Philadelphia, PA. |
|  |  | Dixon, BE, Harle CA, Vest JR, Grannis SJ, **Schleyer TK**, The Indiana Training Program in Public and Population Health Informatics. , AMIA Inspire Conference., 2017 Jun 6-8 |
|  |  | **Schleyer TK**, When will computers finally work in healthcare? Dartmouth College Geisel School of Medicine, 2017 Apr 27 |
|  |  | **Schleyer TK**, Grannis S. Futures of health IT: Vignettes from the Regenstrief Institute. Employers’ Forum of Indiana. , 2017 Mar 16. ; Indiana, IN |
|  |  | **Schleyer TK**. Data Analytics to combat opioid/prescription drug (ab)use. Presented at: Regenstrief Work in Progress. ; 2017 Mar 15. ; Indianapolis, IN. |
|  |  | **Schleyer TK**. Building a bridge across the Valley of Death in informatics. ACMI 2017 Winter Symposium. ; 2017 Feb 3.; Duck Key, FL |
|  |  | **Schleyer TK**, Bostic B, Langelier M, Walsh T. Indiana’s opportunities to lead in digital health (series of 3 workshops). 2016 Jan-Mar.; Indianapolis, IN. |
|  |  | **Schleyer TK**, Labkoff S, Grundmeier R, Crocker V, Cai J, McCallie D. Precision medicine: Whose job is it anyway? Presented at: AMIA 2015 Annual Symposium.; 2015 Nov 15-18.; San Francisco, CA. |
|  |  | **Schleyer TK**, Grannis S. The Regenstrief Center for Biomedical Informatics: Better health through informatics. Presented at: AMIA 2015 Annual Symposium. ; 2015 Nov 15-18. ; San Francisco, CA. |
|  |  | **Schleyer TK**, Grannis S. The Regenstrief Center for Biomedical Informatics. Presented at: CBMI Open House. ; 2015 May 8.; Regenstrief Institute., Indianapolis, IN. |
|  |  | Harris L, **Schleyer TK**, Chand P, Dexter P, Takesue B, Duke J, Leventhal J, Dixon B, Morea J, Beesley C, Wen C, Stroup J, Byrket A, Warvel J, Meeks-Johnson J, Colvard C. A distributed approach to decision support rule authoring. Presented at: 2015 HIMSS Annual Conference & Exhibition.; 2015 Apr 12-16.; Chicago, IL. |
|  |  | **Schleyer TK**. Data breaches in medicine: The Anthem case. Presented at: WFYI Sound Medicine; 2015 Feb 11; Indianapolis, IN. |
|  |  | **Schleyer TK**, Thyvalikakath TP. An online course in applied clinical informatics: Development and delivery. Presented at: Regenstrief Work in Progress; 2015 Jan 28; Indianapolis, IN. |
|  |  | **Schleyer TK**. User-centered design: Theory and practice. Presented at: Regenstrief Work in Progress; 2013 Nov 6; Indianapolis, IN. |
|  |  | **Schleyer TK**. A brief update on the Center for Biomedical Informatics. Presented at: Regenstrief HSR Work in Progress; 2013 Nov 1; Indianapolis, IN. |
|  |  | **Schleyer TK**. A brief history of time in dental informatics. Presented at: Regenstrief Work in Progress; 2013 Jun 12; Indianapolis, IN. |
|  |  | Song M, **Schleyer TK**, Rindal D, Fellows J, Gordan V, Gilbert G, DPBRN Collaborative Group T. Electronic dental record use in the Dental Practice-based Research Network. Presented at: Annual meeting of the American Association for Dental Research; 2012 Mar 21-24; Tampa, FL. |
|  |  | Griffin W, Barnett W, Conlon M, Eichmann D, Kibbe W, Falk-Krzesinski H, Halaas M, Johnson L, Meeks E, Mitchell D, **Schleyer TK**, Stallings S, Warden M, Kahlon M, Members of the DIRECT Collaboration. Distributed Interoperable Research Experts Collaboration Tool (DIRECT). Presented at: AMIA 2011 Annual Symposium; 2011 Oct 22-26; Washington, DC. |
|  |  | Shirey WE, Shen S, Mitchell S, Lowe B, Corson-Rikert J, Schmandt LM, **Schleyer TK**. DV Docs: Generating CVs and NIH biosketches from VIVO data. Poster presented at: CTSA Informatics Key Function Committee All-Hands Meeting; 2011 Oct 12-13; Bethesda, MD. |
|  |  | Borromeo C, **Schleyer TK**, Becich MJ, Hochheiser H. Finding collaborators: Towards interactive tools for research social networks. Poster presented at: CTSA Informatics Key Function Committee All-Hands Meeting; 2011 Oct 12-13; Bethesda, MD. |
|  |  | Weber G, Barnett W, Conlon M, Eichmann D, Kibbe W, Falk-Krzesinski H, Halaas M, Johnson L, Meeks E, Mitchell D, **Schleyer TK**, Stallings S, Warden M, Kahlon M, Members of the Clinical and Translational Science Award (CTSA) Research Networking Group. Direct2Experts - Connecting VIVO and other research networking products. Presented at: Second Annual VIVO National Conference; 2011 Aug 24-26; Washington, DC. |
|  |  | **Schleyer TK**, Mitchell S, Shen S, Shirey WE, Corson-Rikert J, Lowe B, Becich MJ, Schmandt LM. (Trans)planting Digital Vita: Document generation for VIVO. Presented at: Second Annual VIVO Conference; 2011 Aug 24-26; Washington, DC. |
|  |  | Borromeo C, **Schleyer TK**, Becich MJ, Hochheiser H. Finding collaborators: Towards interactive tools for research social networks. Poster presented at: Second Annual VIVO Conference; 2011 Aug 24-26; Washington, DC. |
|  |  | Mowery D, **Schleyer TK**, Harkema H, Chapman WW. Discourse in Dictated Dental Exams. Poster presented at: NIDCR Trainee Meeting; 2011 Mar 16; San Diego, CA. |
|  |  | **Schleyer TK**, Spallek H, Butler BS, Song M, Dziabiak M, Shirey WE, Milnes J. Digital Vita: A qualitative evaluation. Presented at: AMIA Summit on Clinical Research Informatics (CRI); 2011 Mar 9-11; San Francisco, CA. |
|  |  | Torres-Urquidy H, **Schleyer TK**. Use of Context and Synonymy to Improve Terminology Development. Poster presented at: AMIA 2010 Annual Symposium; 2010 Nov 13-17; Washington, DC. |
|  |  | **Schleyer TK**, Spallek H, Song M, Butler BS, Dziabiak M, Shirey WE, Milnes J. CV management in Digital Vita: A formative evaluation. Presented at: CTSA 2010 Informatics Key Function Committee All-Hands Meeting; 2010 Oct 13-15; Bethesda, MD. |
|  |  | **Schleyer TK**, Shirey W, Borromeo C. Initial comparison of data models in Digital Vita and VIVO. Poster presented at: VIVO National Conference; 2010 Aug 12-13; New York Hall of Science, New York, NY. |
|  |  | **Schleyer TK**. Improving oral health with informatics. Presented at: 10th Annual Spring Research Symposium; 2010 May 12; University of Pittsburgh, School of Dental Medicine. |
|  |  | Butler BS, **Schleyer TK**, Spallek H, Schmandt LM. Digital Vita: Designing a social infrastructure for team science. Presented at: Science of Team Science; 2010 Apr 22-24; Chicago, IL. |
|  |  | Spallek H, Irwin J, **Schleyer TK**. The Dental Informatics Online Community. Poster presented at: AADR 39th Annual Meeting & Exhibition; 2010 Mar 3-6; Washington, DC. |
|  |  | Mowery D, **Schleyer TK**, Chapman WW. Distinguishing existing findings from planned treatments in dictated dental exams. Poster presented at: AADR 39th Annual Meeting & Exhibition; 2010 Mar 3-6; Washington, DC. |
|  |  | Irwin J, Christensen L, Harkena H, **Schleyer TK**, Spallek H, Haug P, Chapman BE, Chapman WW. A speech-to-chart prototype for automatically charting hard tissue exams. Poster presented at: AADR 39th Annual Meeting & Exhibition; 2010 Mar 3-6; Washington, DC. |
|  |  | Acharya A, Thyvalikakath T, **Schleyer TK**. Feasibility of Delphi Methodology to validate dental information items list. Poster presented at: AADR Annual Meeting.; 2010 Mar 3-6; Washington, DC. |
|  |  | **Schleyer TK**, Spallek H, Butler B, Schmandt LM. Digital Vita: Facebook for scientists. Poster presented at: 2009 CTSA Informatics Key Function Committee All-Hands Meeting; 2009 Oct 28-29; Bethesda, MD. |
|  |  | Detlefsen EG, **Schleyer TK**, Spallek H, Butler BS. . “The Lunch With A Scientist Project: An Information Behavior Study in an Academic Health Sciences Center.”. Poster presented at: iConference 2009; 2009 Feb; Chapel Hill NC. |
|  |  | Thyvalikakath T, Hashemi S, Kase J, Weber J, Williams E, **Schleyer TK**. Design of electronic dental record based on clinicians’ cognitive processes. Poster presented at: 87th IADR/ AADR General Session,; 2009; Miami, FL. |
|  |  | **Schleyer TK**, Spallek H, Butler BS, Subramanian S, Weiss D, Poythress M, Rattanathikun P, Mueller GM. Requirements for systems that optimize how biomedical scientists choose collaborators. Poster presented at: NCI/NCRI Joint Conference “Biomedical informatics without borders: Enabling collaboration to strengthen research and care”; 2008 Sep 2-23; Bethesda, MD. |
|  |  | Thyvalikakath TP, Torres-Urquidy HM, Dziabiak M, **Schleyer TK**. Cognitive task analysis of clinicians’ decision making activities during diagnosis and treatment planning. Poster presented at: ADEA Annual Session; 2008 Mar; Dallas, TX. |
|  |  | **Schleyer TK**, Spallek H, Butler BS, Kelleher C, Johnson S. Online communities for translational research. Poster presented at: Proceedings of the AMIA Spring Congress; 2007; Orlando, FL. |
|  |  | Spallek H, **Schleyer T**. Dental Informatics at the University of Pittsburgh. Presented at: Guy’s Hospital Dental School; 2005 Sep 14; London, UK. |
|  |  | **Schleyer TK**, Zimmerman J, Suzewits J, Little D, Charters K. Survival of the fittest: Information technology as a subject in health professional curricula. Presented at: Workshop, Annual Symposium, American Medical Informatics Association; 2003 Nov 9. |
|  |  | **Schleyer TK**, Zimmerman J, Bartling J. Research and informatics: What are the challenges? Presented at: Symposium, 32nd Annual Meeting & Exhibition of the AADR; 2003 Mar 14; San Antonio, TX. |
|  |  | **Schleyer TK**, Bartling W. Datamining MEDLINE for topics and trends in dental and craniofacial research. Presented at: Symposium, 32nd Annual Meeting & Exhibition of the AADR; 2003 Mar 14; San Antonio, TX. |
|  |  | **Schleyer TK**. Dental informatics: What is in it for me? Presented at: Faculty development lecture; 2003 Feb 26; University of Pittsburgh School of Dental Medicine. |
|  |  | **Schleyer TK**. Computing in dentistry. Presented at: Homecoming weekend; 2002 Oct 26; University of Pittsburgh School of Dental Medicine. |
|  |  | **Schleyer TK**. Dental informatics: An overview. Presented at: ASDA Grand Rounds; 2002 Sep 18; University of Pittsburgh School of Dental Medicine. |
|  |  | **Schleyer TK**. Designing measurement studies. Presented at: TechFair, ADEA Annual Session; 2001 Mar 6; Chicago, IL. |
|  |  | Johnson L, **Schleyer TK**. Encouraging high-quality electronic scholarship through peer review. Presented at: TechFair, ADEA Annual Session; 2001 Mar 6; Chicago, IL. |
|  |  | **Schleyer TK**, Torres H. Validation of an instrument to measure students’ use of, knowledge about, and attitudes towards computers. Poster presented at: ADEA Annual Session; 2001 Mar 3-7; Chicago, IL. |
|  |  | **Schleyer TK**, Spallek H. Supporting computer users in a dental school. Poster presented at: AADS Annual Session; 2000 Apr 1-5; Washington, DC. |
|  |  | Spallek H, **Schleyer TK**, Farren S. Evaluation of an intranet. Poster presented at: AADS Annual Session; 1999 Mar 6-10; Vancouver, BC. |
|  |  | **Schleyer TK**, Wong P. Competencies for dental informatics. Poster presented at: AADS Annual Session; 1999 Mar 6-10; Vancouver, BC. |
|  |  | **Schleyer TK**, Johnson L, Pham T. Online continuing education in dentistry. Poster presented at: AADS Annual Session; 1999 Mar 6-10; Vancouver, BC. |
|  |  | **Schleyer TK**. Online continuing education in dentistry. Presented at: SIPP/IOA Project Consortium Meeting; 1998 Oct; Paris, France. |
|  |  | **Schleyer TK**, Torres H, Spallek H. Internet use in dentistry. Presented at: Toward Electronic Patient Records, Medical Records Institute; 1998 Mar; Nashville, TN. |
|  |  | **Schleyer TK**. Computer-based patient records and the Internet. Presented at: Section of Orthodontics, AADS Annual Session; 1998 Mar; Minneapolis, MN. |
|  |  | **Schleyer TK**. A Web-based clinical information system. Presented at: Section of Dental Informatics, AADS Annual Session; 1998 Mar; Minneapolis, MN. |
|  |  | Spallek H, **Schleyer TK**, Kwok M. Implementation of an intranet. Poster presented at: Computers in Health Care Education; 1997 Apr; Philadelphia, PA. |
|  |  | Spallek H, **Schleyer TK**, Kwok M. Implementation of an intranet. Poster presented at: Computers in Health Care Education Symposium; 1997 Apr; Philadelphia, PA. |
|  |  | **Schleyer TK**, Spallek H. Implementation of a World Wide Web-based continuing education program. Presented at: Computers in Health Care Education Symposium; 1997 Apr; Philadelphia, PA. |
|  |  | **Schleyer TK**. Implementing a dental informatics curriculum. Presented at: AADS Annual Session; 1997 Mar; Orlando, FL. |
|  |  | **Schleyer TK**. Developing Web-based clinical information systems. Presented at: Symposium of the AADS Consortium for Clinical Information Systems, AADS Annual Session; 1997 Mar; Orlando, FL. |
|  |  | **Schleyer TK**. The status of computer-based oral health records. Presented at: Toward Electronic Patient Records; 1996 May 13-18; Sheraton San Diego Hotel. |
|  |  | **Schleyer TK**. Analyzing clinic utilization. Presented at: Symposium of the AADS Consortium for Clinical Information Systems, AADS Annual Session; 1996 May. |
|  |  | **Schleyer TK**, Spallek H. , Implementation of a course on the World Wide Web. Poster presented at: AADS Annual Session; 1996 Mar. |
|  |  | **Schleyer TK**. A comprehensive image management system for dentistry. Poster presented at: Computers in Health Care Education Symposium; 1995 Apr. |
|  |  | **Schleyer TK**. Integrating clinical information systems at the point of care. Presented at: Symposium of the AADS Consortium for Clinical Information Systems, AADS Annual Session; 1995 Mar. |
|  |  | **Schleyer TK**. Strategies for system implementation. Presented at: Symposium of the AADS Consortium for Clinical Information Systems, AADS Annual Session; 1995 Mar. |
|  |  | **Schleyer TK**. Toward a computer based oral health record. Presented at: Toward Electronic Patient Records; 1995 Mar; Medical Records Institute. |
|  |  | **Schleyer TK**. Market opportunities for computer based oral health records. Presented at: Workshop of the Dental Manufacturer’s Association; 1995 Feb; Chicago Midwinter Meeting. |
|  |  | **Schleyer TK**. Standards in dentistry. Presented at: Meeting of Subcommittee E31.12, American Society for Testing and Materials; 1994 Nov. |
|  |  | **Schleyer TK**. Standards: Riding the wave to the computer based oral health record. Presented at: Annual Meeting of the AADS Consortium for Clinical Information Systems; 1994 Oct. |
|  |  | **Schleyer TK**. Development of an academic computing plan. Poster presented at: AADS Annual Session; 1994 Mar. |
|  |  | **Schleyer TK**. Dental informatics courses at Temple University School of Dentistry. Presented at: AADS Information Technology Committee, AADS Annual Session; 1994 Mar. |
|  |  | **Schleyer TK**. Software architecture of the Clinical Management System. Presented at: Meeting of the AADS Consortium for Clinical Information Systems, International Conference on Computers in Clinical Dentistry; 1993 Sep. |
|  |  | **Schleyer TK**. Clinic information systems: The potential for collaboration. Presented at: Meeting of the AADS Consortium for Clinical Information Systems, International Conference on Computers in Clinical Dentistry; 1993 Sep. |
|  |  | **Schleyer TK**. Designing clinical information systems for the computer based oral health record. Presented at: Symposium, AADS/IADR Annual Session; 1993 Mar. |
|  |  | **Schleyer TK**. Developing cross-platform GUI-based applications with Open Interface 2.0. Presented at: Computers in Health Care Education Symposium; 1993 Mar. |
|  |  | **Schleyer TK**. System development life cycle. Presented at: AADS Information Technology Committee, AADS Annual Session; 1990 Nov. |

**Teaching**

**Undergraduate courses**

|  |  |  |
| --- | --- | --- |
| 2004 | Health Information Management in the Non-Traditional Setting | Faculty |

**Graduate courses**

|  |  |  |
| --- | --- | --- |
| 2020 | ASPIRE program (IU School of Medicine); “Pros and cons of using electronic medical records for research” [online] | Guest lecturer |
| 2020 | Introduction to health information technology in dentistry (IU School of Dentistry); “Teaching contextual inquiry” [online] | Guest lecturer |
| 2020 | AHRQ LHS K12 Lecture Series (Regenstrief Institute); “The Indiana Learning Health Systems Initiative (ILHSI): LHS for a healthcare market” [online] | Guest lecturer |
| 2019 | Informatics Scholarly Concentration (IU School of Medicine); “Helping improve clinical and public health decisions with informatics” [online] | Guest lecturer |
| 2018 | CS 493 Computer Science (University of Illinois at Chicago); guest lecture “CareView: What if your doctor knew everything about you?” [online] | Guest lecturer |
| 2017 | Patient Safety and Informatics (Purdue University); “Fast Healthcare Interoperability Resources” with M. Kochmann | Guest lecturer |
| 2017 | Introduction to health information technology in dentistry (26339) | Faculty |
| 2016 | Biomedical Informatics Journal Club | Facilitator |
| 2015 | Introduction to health information technology in dentistry | Faculty |
| 2015 | Seminar in Health Informatics I | Faculty |
| 2011 - 2013 | Introduction to Health Information Technology in Dentistry | Course director |
| 2007 - 2013 | Biomedical Informatics Journal Club | Faculty |
| 2004, 2005, 2007 - 2013 | Introduction to Biomedical Informatics | Faculty |
| 2004 - 2013 | Dental Informatics MS Thesis | Course director |
| 2003 - 2005, 2008, 2010 - 2013 | Dental Informatics Seminar | Course director |
| 2002, 2004 - 2013 | Introduction to Dental Informatics Research | Course director |
| 2002, 2004, 2007, 2009 | Dental Information Systems | Course director |
| 2002 | Oral and Maxillofacial Radiology | Faculty |
| 1999 - 2000 | Dental Informatics Seminar | Course director |
| 1999 - 2000 | Management of Information Infrastructures | Course director |
| 1999 - 2000 | Dental Informatics Research | Course director |

**Predoctoral courses**

|  |  |  |
| --- | --- | --- |
| 2010 - 2013 | Health Promotion and Disease Prevention 2 | Faculty |
| 2010 - 2013 | Current Topics in Oral Health | guest faculty |
| 2002 - 2013 | Introduction to Computing | Faculty |
| 2002 - 2008, 2010 - 2012 | Comprehensive Care Clinic | Faculty |
| 2006 - 2010 | Senior Case Presentation | Faculty |
| 2006 - 2009 | Basic Science of Care (School of Medicine) | Faculty |
| 2005, 2006 | Biodontics | Faculty |
| 2002 - 2005 | Professionalism and Social Issues in Dentistry | Faculty |
| 1997 - 2001 | Fixed Prosthodontics Clinic | Faculty |
| 1994 - 1997, 1999, 2001 | Dental Informatics | Course director |
| 1998 - 2000 | Introduction to Computing | Faculty |
| 1995 - 1997 | Introduction to Computing | Course director |
| 1995 | Pediatric Dentistry Preclinical Lab | Faculty |
| 1994 - 1996 | Comprehensive Treatment Planning Clinic | Faculty |
| 1990 - 1992 | Computers in Dentistry | Co-director |
| 1990 - 1992 | Operative Dentistry Lab |  |
| 1989 - 1990, 1996 | Operative Dentistry Clinic | Faculty |

**Mentoring and advising**

**Undergraduate/predoctoral students**

|  |  |  |
| --- | --- | --- |
| 2020 | Brandon GregorySearch functions in EHRs | Mentor |
| 2020 | Valeria DeLiraIMO-Regenstrief Problem List | Mentor |
| 2019 | Julia OttesonIMO-Regenstrief Problem List | Mentor |
| 2019, 2020 | Alexandria JuarezIMO-Regenstrief Problem List | Mentor |
| 2018 | Allissia BaubletCareView evaluation paper | Mentor |
| 2017 | Akeem WilliamsDevelopment of a prototype SMART-on-FHIR app for managing chest pain patients | Mentor |
| 2012 - 2013 | Aaron LazukaClinical data extraction from Dentrix | Mentor |
| 2011 | William HartMapping research to clinical data in dentistry | Mentor |
| 2010 | Gloria SpataroDigital Vita system documentation maintenance | Project advisor |
| 2010 | Diane KoTime-motion study of initial exams in general dentistry | Student advisor/Dean’s summer research scholarship |
| 2008 | Andrew MartinDevelopment of a 3D model for patient records in general dentistry | Student advisor/CTSI STARTUP |
| 2008 | Jonathan MisnerDevelopment of a controlled terminology for dental diagnoses and findings | Student advisor/CTSI STARTUP |
| 2007 | Amat KamatInfluence of a 3D model on clinical decision-making in general dentistry | Student advisor/CTSI STARTUP |
| 2005 | Thomas PhamInteracting with information during dental charting | Student advisor/T35 |
| 2005 | Colleen DuganInteracting with information during dental charting | Student advisor/T35 |
| 2004 | Bryce LarsenAppropriateness of a practice management system for dental clinical documentation: Usability | Student advisor/T35 |
| 2004 | Benjamin LinAppropriateness of a practice management system for dental clinical documentation: Task-appropriate design | Student advisor/T35 |

**Master’s students**

|  |  |  |
| --- | --- | --- |
| 2011 - 2014 | Charles BorromeoSupporting searching for collaborators: Topic-focused and social approaches | Member, MS project committee |
| 2011 - 2013 | Corey SteinA dental emergency communication app for patients | Advisor |
| 2011 - 2013 | Richard OldhamDecision support for dental treatment planning | Advisor |
| 2008 - 2010 | Marc ClaytonFeasibility of ePrescribing in a dental school | Advisor |
| 2008 - 2009 | Jonhan HoContextual inquiry in anatomic pathology | Member, MS project committee |
| 2007 - 2008 | Joe RauchTime utilization in clinical dentistry | Advisor |
| 2006 - 2009 | Teena WaliInformation needs of general dental practitioners during patient care | Advisor |
| 2003 - 2005 | Jeannie Yuhaniak IrwinInteracting with information during dental charting and treatment planning | Advisor |
| 2003 - 2005 | Patricia CorbyIdentifying twins in a research study through iris recognition technology | Advisor |
| 2003 - 2005 | Thankam ThyvalikakathAppropriateness of a practice management system for dental clinical documentation: Usability | Advisor |
| 2003 - 2005 | Pedro HernandezAppropriateness of a practice management system for dental clinical documentation: Task-appropriate design | Advisor |
| 2003 - 2004 | Humberto Torres-UrquidyOral and head and neck manifestations caused by bioterrorist agents | Advisor |
| 2002 - 2003 | Bill BartlingAutomatically retrieving dental and craniofacial research abstracts from MEDLINE | Advisor |
| 2000 - 2001 | Humberto Torres-UrquidyUso, conocimientos, actitudes y percepciones de los estudiantes de odontologia con respecto a las computadoras [Dental students’ use of, knowledge about and attitudes towards computers] | Advisor |
| 1999 - 2000 | Hikmet UmarDecision-making under uncertainty in clinical dentistry: A probabilistic approach to a dental clinical advisory system | Advisor |
| 1998 | Wayne KaiserTelemedicine in public health, some aspects: Past, present, and future | Thesis defense committee |
| 1995 - 1996 | Michiel NuveenLow cost three dimensional skeletal and soft tissue reconstruction in orthodontics | Thesis defense committee, Temple University |
| 1995 | Farshad ZaghiApplication of fractal analysis to assessment of alveolar bone architecture during tooth movement | Thesis defense committee, Temple University |

**Doctoral students**

|  |  |  |
| --- | --- | --- |
| 2017 -  | Heather TaylorDoes treating periodontal disease improve the risk for and outcomes of systemic disease? An opportunity for public health informatics research | Advisor |
| 2010 - 2013 | Danielle Hyunsook LeeRecommendations using users’ social explicit networks | Member, Thesis committee |
| 2009 - 2014 | Danielle MoweryDevelopment of an NLP-based system for dental charting | Co-Advisor |
| 2008 – 2012 | Thankam ThyvalikakathDesign of an electronic dental record based on cognitive requirements | Advisor |
| 2006 - 2013 | Humberto Torres-UrquidyEncapsulation during the dental diagnostic process | Advisor |
| 2010 - 2011 | Melissa CastineDevelopment of a reference ontology for dental findings | Advisor |
| 2006 - 2010 | Amit AcharyaDevelopment of an information model for a general dental record | Advisor |
| 2006 - 2009 | Jeannie IrwinSpeech to chart: Speech recognition and natural language processing for dental charting | Co-Advisor |

**Postdocs or fellows**

|  |  |
| --- | --- |
| **Year(s)** | **Student’s Name & Degree/Discipline** |
| 2020 – present | Liz UmberfieldDevelopment and evaluation of a FHIR app for advanced directives |
| 2019 – present | Matt CainData analytics for the opioid epidemic |
| 2019 - present | Bryan McConomyA problem-focused dashboard; Wound Care Registry |
| 2018 - present | Rebecca RiveraIndiana Training Program in Public and Population Health Informatics |
| 2018 - present | Eric PusterDevelopment and evaluation of a FHIR-based asthma dashboard |
| 2016 - 2017 | Erika GreenUser interface design for collaborative filtering for information retrieval in EHRs |
| 2016 - 2018 | Dan SeitzIntegrating electronic health records and health information exchanges using Fast Healthcare Interoperability Resources (FHIR) |
| 2016 - 2018 | Matthias KochmannCollaborative filtering for information retrieval in EHRs |
| 2016 - present | Khoa NguyenRisk factors for statin-induced adverse drug reactions |
| 2012 - 2013 | Kaihong LiuDevelopment of an ontology for dental clinical research |
| 2008 - 2010 | Humberto Torres-UrquidyDevelopment and evaluation of a controlled vocabulary for dental findings and diagnoses |
| 1999 - 2001 | Krishnaraju KandasamyComparative genomics and structure prediction of dental matrix proteins |

**Mentored faculty**

|  |  |
| --- | --- |
| 2013 - 2014 | Tim ImlerSchool of Medicine, Indiana University |
| 2006 - 2011 | Thankam ThyvalikakathA novel interface computing environment for dental care |

**Service**

**Service to internal organizations**

**Department committees**

|  |  |
| --- | --- |
| 2017 - present | Member, Admissions Committee, Indiana Public and Population Health Informatics Fellowship |
| 2013 - present | Member, Admissions Committee, Academic/Clinical Informatics Fellowship  |
| 2013 - 2015 | Chair, Search Committee, CBMI Faculty |
| 2013 - 2015 | Chair, Faculty Leadership Committee |
| 2010 - 2013 | Member, Training Program Executive Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 2008 - 2013 | Chair, Training Program Retreat Planning Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 2002 - 2013 | Member, Training Program Curriculum Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 1996 - 2013 | Member, Admissions Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 2009 - 2010 | Member, Training Program Evaluation Committee, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 2004 | Member, Search Committee, Chair, Department of Biomedical Informatics, University of Pittsburgh School of Medicine |
| 1998 - 1999 | Member, Search Committee, The Rosenthal Endowed Chair, Department of Oral Medicine, Temple University School of Dentistry |
| 1996 | Member, Promotion and Tenure Committee, Department of Orthodontics, Temple University |
| 1994 - 1998 | Member, Research Committee, Department of Operative Dentistry, Temple University School of Dentistry |
| 1994 - 1998 | Member, Awards Committee, Department of Operative Dentistry, Temple University School of Dentistry |
| 1994 - 1995 | Chair, Departmental Leaves Committee, Department of Operative Dentistry, Temple University School of Dentistry |

**School/university/institute committees**

|  |  |
| --- | --- |
| 2020 - present | Member, COVID-19 Research Data Commons Advisory Committee |
| 2019 - present | Member, Regenstrief Executive Council |
| 2015 - 2016 | Member, Search and Screen, Regenstrief Institute President |
| 2015 | Member, Cyberinfrastructure Review Task Force |
| 2015 | Member, IUSM Genomics Core Working Group |
| 2013 - 2015 | Member, Search Committee, Director, Center for Computational Biology and Bioinformatics |
| 2013 - 2015 | Member, Regenstrief Institute Executive Committee |
| 2013 - present | Member, Indiana CTSI Program Leaders Committee |
| 2003 - 2013 | Interviewer, Predoctoral Program, Admissions Committee, University of Pittsburgh School of Dental Medicine |
| 2007 - 2010 | Member, Information Management Accreditation Sub-Committee, University of Pittsburgh School of Dental Medicine |
| 2008 | Member, Search Committee, Senior Scholar in Cyber scholarship, School of Information Science |
| 2002 - 2006 | Member, Information Technology Advisory Committee, University of Pittsburgh |
| 2002 - 2006 | Member University of Pittsburgh, Joint Academic and Student Services Committee, University of Pittsburgh School of Dental Medicine |
| 2002 - 2005 | Member, Health Sciences Information Technology Council, University of Pittsburgh |
| 2002 - 2005 | Member, Health Sciences Information Technology Faculty Advisory Committee, University of Pittsburgh |
| 2002 - 2005 | Member, Joint Advisory Committee (University networks), University of Pittsburgh/UPMC |
| 2005 | Member, Tasks Force on Linking Scholarship to Industry Practice, University of Pittsburgh |
| 2002 - 2004 | Member, Network and Telecommunications Committee, University of Pittsburgh |
| 2004 | Ad-hoc Member, Executive Committee, University of Pittsburgh School of Dental Medicine |
| 2002 - 2003 | Member, Commission on Dental Accreditation Standard 2 (Educational Program) Information Management and Critical Thinking, University of Pittsburgh School of Dental Medicine |
| 2003 | Member, Search Committee, Health Sciences Library System Director, University of Pittsburgh |
| 1997 - 2001 | Member, Health Sciences Center Library Committee, Temple University |
| 1996 - 2001 | Member, Collegial Assembly Promotion and Tenure Committee, Temple University School of Dentistry |
| 1996 - 2001 | Member, Health Sciences Center Library Planning Committee, Temple University |
| 1994 - 2001 | Member, Teaching, Learning, and Technology Committee, Temple University |
| 1993 - 2001 | Member, Research and Advanced Education Committee, Temple University School of Dentistry |
| 1992 - 2001 | Chair, Academic Computing Task Force, Temple University School of Dentistry |
| 1991 - 2001 | Member, Computer Committee, Temple University Health Sciences |
| 1991 - 2001 | Member, Computing Committee, Temple University |
| 2001 | Member, Outcomes Assessment Committee, Temple University School of Dentistry |
| 2001 | Chair, Faculty Disciplinary Review Task Force, Temple University School of Dentistry |
| 1997 - 1998 | Chair, Standing Committee on Outcomes Assessment, Temple University School of Dentistry |
| 1996 - 1998 | Member, Admissions Committee, Temple University School of Dentistry |
| 1996 - 1998 | Member, Continuing Education Committee, Temple University School of Dentistry |
| 1995 - 1997 | Chair, Committee on Outcomes, ADA Accreditation Self-Study, Temple University |
| 1995 - 1997 | Member, Working Group on Central Site Equipment/Networking, Temple University |
| 1995 - 1997 | Member, Distance Learning Pilot Project Committee, Temple University |
| 1995 - 1996 | Member, Lecture and Forum Committee, Collegial Assembly, Temple University |
| 1994 - 1995 | Member, Ad hoc Committee on Basic Sciences and Clinical Correlations, Temple University |
| 1994 - 1995 | Chair, Changing the Culture Subcommittee, Temple University |
| 1992 - 1995 | Member, Communications Planning Committee, Temple University |
| 1991 - 1992 | Member, Microcomputer Users Group, Temple University Health Sciences Center |
| 1992 | Member, Search Committee, Vice President for Computer and Information Services, Temple University |

**University of Pittsburgh Medical Center committees**

|  |  |
| --- | --- |
| 2004 - 2013 | Member, eRecord Enterprise-Wide Physician Advisory Council, University of Pittsburgh Medical Center |

**Service to external organizations**

**Professional practice**

|  |  |
| --- | --- |
| 2012 - 2013 | Member, RecordLinc, Technical Advisory Board |
| 2011 | Consultant, Indiana University School of Dental Medicine, Information Technology |
| 1999 - 2004 | Consultant, American Dental Association, Dental Information Technology Committee |
| 2000 - 2002 | Advisory Board, DentalXChange.com |
| 2001 | Consultant, University of Pittsburgh School of Dental Medicine, Information Technology Assessment |
| 2000 | Consultant, University of Michigan School of Dentistry, Information Technology |
| 1999 | Consultant, Marquette University School of Dentistry, Information Technology |
| 1996 | Consultant, State University of New York at Buffalo, College of Dental Medicine, Information Technology |

**External committees**

|  |  |
| --- | --- |
| 2020 - present | Interorganizational liaison, AMIA-HL7 |
| 2019 - 2020 | Member, Strategy Steering Committee, AMIA  |
| 2016 - 2019 | Treasurer, AMIA |
| 2016 - 2019 | Member, Audit Committee, AMIA |
| 2016 - 2019  | Member, Executive Committee, AMIA |
| 2016 - 2019 | Member, Finance Committee, AMIA |
| 2015 - 2016 | Secretary, American College of Medical Informatics |
| 2012 - 2013 | Member, CTSA Connect Advisory Group |
| 2012 - 2015 | Member, Executive Committee, American College of Medical Informatics |
| 2012 - 2013 | Member, Membership and Outreach Committee, American Medical Informatics Association |
| 2010 - 2013 | Member, "Best of Class" Technology Award Selection Panel, Pride Institute |
| 2010 - 2013 | Member, Informatics Key Function Committee Research Networking, Clinical and Translational Science Award Consortium |
| 2006 - 2013 | Member, Communication Workgroup, Clinical and Translational Science Award Consortium |
| 2000 - 2013 | Member, Standards Committee on Dental Informatics, American National Standards Institute |
| 2000 - 2013 | Chair, Working Group 13.1 (Educational Software), Standards Committee for Dental Informatics |
| 2000 - 2013 | Member, Arbeitskreis "Angewandte Informatik in der Zahn-, Mund- und Kieferheilkunde," Deutsche Gesellschaft für Zahn-, Mund-, und Kieferheilkunde |
| 2002 - 2013 | Member, Nominating Committee, Standards Committee on Dental Informatics |
| 2005 - 2011 | Member, Monitoring Committee for Dental Practice-Based Research Networks, National Institute of Dental and Craniofacial Research |
| 2006 - 2009 | Chair, Working Group 11.7: General Dental EHR Information Model, Standards Committee for Dental Informatics |
| 2005 - 2008 | Member, National Health Information Infrastructure Task Force, American Dental Association |
| 2007 | Member, Diagnostic Codes Task Force, American Dental Education Association |
| 2002 - 2004 | Chair, Education Working Group, American Medical Informatics Association |
| 2000 - 2002 | Member, Future of Dentistry Panel, American Dental Association |
| 1997 - 2000 | Member, Project Consortium, Special Interactive TV&Multimedia Programs for Professionals and Public in Dentistry, Quintessence Publishing |
| 1995 - 2000 | Member, Information Technology Advisory Committee, American Dental Education Association |
| 1994 - 1999 | Chair, Accredited Standards Committee Medical Devices 156 Working Group 5, Dental Education and Research Systems, American Dental Association |
| 1992 - 1999 | Member, Accredited Standards Committee Medical Devices 156 Working Group 2, American Dental Association |
| 1994 - 1997 | Chair, Consortium for Clinical Information Systems, American Association of Dental Schools |
| 1991 - 1993 | Chair, Consortium for Clinical Information Systems Working Group, American Association of Dental Schools |

**Other professional activities**

|  |  |
| --- | --- |
| 2018 - present | Trained Facilitator, National Research Mentoring Network  |
| 2004 | Volunteer, Take a HealthCare Professional to the People Day |