curriculum vitae

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1 EDUCATION AND EMPLOYMENT HISTORY

1.1 Education History

Iowa State University Ph.D., Computer Science Dissertation: Bringing Ultra-Large-Scale Software Repository I Adviser: Dr. Hridesh Rajan Area of Study: Software Engineering	Ames, IA December 2013 Mining to the Masses with Boa
Iowa State University M.S., Computer Science Thesis: Supporting Dynamic Aspect-oriented Features Adviser: Dr. Hridesh Rajan Area of Study: Software Engineering	Ames, IA December 2008
Iowa State University B.S., Computer Science and Computer Engineering	Ames, IA December 2006
Employment History	
University of Nebraska–Lincoln (UNL)	Lincoln, NE
 Assistant Professor School of Computing Assistant Professor Department of Computer Science and Engineering 	August 2021–current August 2020–August 2021
Iowa State University (ISU)	Ames, IA
Affiliate Assistant Professor Department of Computer Science	January 2021–December 2023
Bowling Green State University (BGSU)	Bowling Green, OH
Associate Professor	August 2020
 Department of Computer Science Assistant Professor Department of Computer Science 	August 2014–August 2020
Iowa State University (ISU)	Ames, IA
Postdoctoral Researcher Department of Computer Science	January–June 2014

1.2

2 RESEARCH ACCOMPLISHMENTS

2.1 Publication Record

2.1.1 Peer Reviewed Journal Publications in Print

- [J5] S. W. Flint, J. Chauhan, and R. Dyer, "Pitfalls and guidelines for using time-based Git data," *Empirical Software Engineering*, vol. 27, no. 7, 2022. doi: 10.1007/s10664-022-10200-y
- [J4] M. Bagherzadeh, R. Dyer, R. D. Fernando, J. Sánchez, and H. Rajan, "Modular reasoning in the presence of event subtyping," *Transactions on Modularity and Composition I*, vol. 1, no. 1, p. 167–223, 2016. doi: 10.1007/978-3-319-46969-0_5
- [J3] R. Dyer, H. A. Nguyen, H. Rajan, and T. N. Nguyen, "Boa: Ultra-large-scale software repository and source-code mining," ACM Transactions on Software Engineering and Methodology, vol. 25, no. 1, p. 7:1–7:34, 2015. doi: 10.1145/2803171
- [J2] R. Dyer, H. Rajan, and Y. Cai, "Language features for software evolution and aspect-oriented interfaces: An exploratory study," *Transactions on Aspect-Oriented Software Development X*, vol. 1, no. 1, p. 148–183, 2013. doi: 10.1007/978-3-642-36964-3_5
- [J1] R. Dyer and H. Rajan, "Supporting dynamic aspect-oriented features," ACM Transactions on Software Engineering and Methodology, vol. 20, no. 2, 2010. doi: 10.1145/1824760.1824764
- 2.1.2 Books and Book Chapters
 - [B1] R. Dyer, H. A. Nguyen, H. Rajan, and T. N. Nguyen, "Boa: an enabling language and infrastructure for ultra-large scale MSR studies," in *The Art and Science of Analyzing Software Data*, C. Bird, T. Menzies, and T. Zimmermann, Eds. Waltham, MA: Morgan-Kaufmann, 2015, p. 593–621
- 2.1.3 Conference Proceedings: Peer Reviewed
 - [C26] A. M. Keshk and R. Dyer, "Method chaining redux: An empirical study of method chaining in Java, Kotlin, and Python," in *Proceedings of the 20th International Conference on Mining Software Repositories*, ser. MSR, 2023, p. to appear
 - [C25] R. Dyer and J. Chauhan, "An exploratory study on the predominant programming paradigms in Python code," in *Proceedings of the 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, ser. ESEC/FSE. New York, NY, USA: Association for Computing Machinery, 2022. doi: 10.1145/3540250.3549158. ISBN 9781450394130 p. 684–695
 - [C24] R. Dyer and S. W. Flint, "Performing large-scale mining studies: From start to finish (tutorial)," in Proceedings of the 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, ser. ESEC/FSE. New York, NY, USA: Association for Computing Machinery, 2022. doi: 10.1145/3540250.3569448. ISBN 9781450394130 p. 1822
 - [C23] S. W. Flint, J. Chauhan, and R. Dyer, "Escaping the time pit: Pitfalls and guidelines for using time-based Git data," in *Proceedings of the 18th International Conference on Mining Software Repositories*, ser. MSR, 2021. doi: 10.1109/MSR52588.2021.00022 pp. 85–96
 - [C22] C. S. Hung and R. Dyer, "Boa views: Easy modularization and sharing of MSR analyses," in *Proceedings of the 17th International Conference on Mining Software Repositories*, ser. MSR. New York, NY, USA: Association for Computing Machinery, 2020. doi: 10.1145/3379597.3387480. ISBN 9781450375177 p. 147–157

- [C21] R. Brunner, R. Dyer, M. Paquin, and E. Sherman, "PAClab: A program analysis collaboratory," in Proceedings of the 28th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering, ser. ESEC/FSE. New York, NY, USA: Association for Computing Machinery, 2020. doi: 10.1145/3368089.3417936. ISBN 9781450370431 p. 1616–1620
- [C20] E. Sherman and R. Dyer, "Software engineering collaboratories (SEClabs) and collaboratories as a service (CaaS)," in *Proceedings of the 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, ser. ESEC/FSE. New York, NY, USA: Association for Computing Machinery, 2018. doi: 10.1145/3236024.3264839. ISBN 9781450355735 p. 760–764
- [C19] J. Su, M. Arafat, and R. Dyer, "Using consensus to automatically infer post-conditions," in Proceedings of the 40th International Conference on Software Engineering: Companion Proceedings, ser. ICSE. New York, NY, USA: Association for Computing Machinery, 2018. doi: 10.1145/3183440.3195096. ISBN 9781450356633 p. 202–203
- [C18] S. Shekarforoush, R. Green, and R. Dyer, "Classifying commit messages: A case study in resampling techniques," in *International Joint Conference on Neural Networks*, ser. IJCNN, 2017. doi: 10.1109/IJCNN.2017.7965999 p. 1273–1280
- [C17] H. Rajan, T. N. Nguyen, G. T. Leavens, and R. Dyer, "Inferring behavioral specifications from large-scale repositories by leveraging collective intelligence," in *Proceedings of the 37th International Conference on Software Engineering*, ser. ICSE, vol. 2, 2015. doi: 10.1109/ICSE.2015.339 pp. 579–582
- [C16] R. Dyer, H. Rajan, T. N. Nguyen, and H. A. Nguyen, "Demonstrating programming language feature mining using Boa," in *Companion Proceedings of the 2015 ACM SIGPLAN International Conference on Systems, Programming, Languages and Applications: Software for Humanity*, ser. SPLASH. New York, NY, USA: Association for Computing Machinery, 2015. doi: 10.1145/2814189.2814192. ISBN 9781450337229 p. 13–14
- [C15] H. A. Nguyen, R. Dyer, T. N. Nguyen, and H. Rajan, "Consensus-based mining of API preconditions in big code," in *Companion Proceedings of the 2015 ACM SIGPLAN International Conference on Systems, Programming, Languages and Applications: Software for Humanity*, ser. SPLASH. New York, NY, USA: Association for Computing Machinery, 2015. doi: 10.1145/2814189.2816271. ISBN 9781450337229 p. 5–6
- [C14] M. Bagherzadeh, R. Dyer, R. D. Fernando, J. Sánchez, and H. Rajan, "Modular reasoning in the presence of event subtyping," in *Proceedings of the 14th International Conference on Modularity*, ser. MODULARITY. New York, NY, USA: Association for Computing Machinery, 2015. doi: 10.1145/2724525.2724569. ISBN 9781450332491 p. 117–132
- [C13] H. A. Nguyen, R. Dyer, T. N. Nguyen, and H. Rajan, "Mining preconditions of APIs in large-scale code corpus," in *Proceedings of the 22nd ACM SIGSOFT International Symposium on Foundations* of Software Engineering, ser. FSE. New York, NY, USA: Association for Computing Machinery, 2014. doi: 10.1145/2635868.2635924. ISBN 9781450330565 p. 166–177
- [C12] R. Dyer, H. Rajan, H. A. Nguyen, and T. N. Nguyen, "Mining billions of AST nodes to study actual and potential usage of Java language features," in *Proceedings of the 36th International Conference* on Software Engineering, ser. ICSE, 2014. doi: 10.1145/2568225.2568295 p. 779–790
- [C11] R. Dyer, H. A. Nguyen, H. Rajan, and T. N. Nguyen, "Boa: A language and infrastructure for analyzing ultra-large-scale software repositories," in *Proceedings of the 35th International Conference* on Software Engineering, ser. ICSE, 2013. doi: 10.1109/ICSE.2013.6606588 p. 422–431
- [C10] R. Dyer, "Task fusion: Improving utilization of multi-user clusters," in Proceedings of the compan-

ion publication for conference on Systems, Programming, Languages, & Applications: Software for Humanity, ser. SPLASH SRC, 2013. doi: 10.1145/2508075.2514878 p. 117–118

- [C9] R. Dyer, H. Rajan, and T. N. Nguyen, "Declarative visitors to ease fine-grained source code mining with full history on billions of AST nodes," in *Proceedings of the 12th International Conference on Generative Programming: Concepts & Experiences*, ser. GPCE, 2013. doi: 10.1145/2637365.2517226 p. 23–32
- [C8] R. Dyer, H. A. Nguyen, H. Rajan, and T. N. Nguyen, "Mining source code repositories with Boa," in *Proceedings of the 2013 Companion Publication for Conference on Systems, Programming,* & *Applications: Software for Humanity*, ser. SPLASH. New York, NY, USA: Association for Computing Machinery, 2013. doi: 10.1145/2508075.2514570. ISBN 9781450319959 p. 13–14
- [C7] R. Dyer, H. A. Nguyen, H. Rajan, and T. N. Nguyen, "Boa: Analyzing ultra-large-scale code corpus," in *Proceedings of the 3rd Annual Conference on Systems, Programming, and Applications: Software for Humanity*, ser. SPLASH. New York, NY, USA: Association for Computing Machinery, 2012. doi: 10.1145/2384716.2384752. ISBN 9781450315630 p. 87–88
- [C6] R. Dyer, H. Rajan, and Y. Cai, "An exploratory study of the design impact of language features for aspect-oriented interfaces," in *Proceedings of the 11th Annual International Conference on Aspect-Oriented Software Development*, ser. AOSD. New York, NY, USA: Association for Computing Machinery, 2012. doi: 10.1145/2162049.2162067. ISBN 9781450310925 p. 143–154
- [C5] R. Dyer, H. A. Nguyen, H. Rajan, and T. N. Nguyen, "Analyzing ultra-large-scale code corpus with Boa," in *Proceedings of the 3rd Annual Conference on Systems, Programming, and Applications: Software for Humanity*, ser. SPLASH. New York, NY, USA: Association for Computing Machinery, 2012. doi: 10.1145/2384716.2384729. ISBN 9781450315630 p. 25–26
- [C4] H. Rajan, G. T. Leavens, R. Dyer, and M. Bagherzadeh, "Modularizing crosscutting concerns with Ptolemy," in *Proceedings of the Tenth International Conference on Aspect-Oriented Software Development Companion*, ser. AOSD. New York, NY, USA: Association for Computing Machinery, 2011. doi: 10.1145/1960314.1960332. ISBN 9781450306065 p. 61–62
- [C3] H. Rajan, S. Mooney, G. T. Leavens, R. Dyer, R. D. Fernando, M. A. D. Darab, and B. Welter, "Modularizing crosscutting concerns with Ptolemy," in *Proceedings of the ACM International Conference Companion on Object Oriented Programming Systems Languages and Applications Companion*, ser. OOPSLA. New York, NY, USA: Association for Computing Machinery, 2011. doi: 10.1145/2048147.2048163. ISBN 9781450309424 p. 31–32
- [C2] R. Dyer and H. Rajan, "Nu: A dynamic aspect-oriented intermediate language model and virtual machine for flexible runtime adaptation," in *Proceedings of the 7th International Conference on Aspect-Oriented Software Development*, ser. AOSD. New York, NY, USA: Association for Computing Machinery, 2008. doi: 10.1145/1353482.1353505. ISBN 9781605580449 p. 191–202
- [C1] R. Dyer, H. Narayanappa, and H. Rajan, "Nu: Preserving design modularity in object code," in *Proceedings of ACM SIGSOFT International Symposium on Foundations of Software Engineering*, ser. FSE. New York, NY, USA: Association for Computing Machinery, 2006. doi: 10.1145/1218776.1218802 p. 1–2

2.1.4 Conference Presentations

1. "An exploratory study on the predominant programming paradigms in Python code," 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, Robert Dyer and Jigyasa Chauhan, November 2023, Singapore.

2.1.5 Invited Talks/Keynote Speeches

- 1. "Leveraging Real-world Code to Learn About Programmer Behavior," UNL, SOFT 160 (2021)
- 2. "Undergraduate Research,", Iowa State University, CS192 (2021)
- 3. "Big Code Mining in Boa," SDE lab, University of Macedonia, Greece (2021)
- 4. "Software Engineering Collaboratories as a Service," University of Nebraska (2019)
- 5. "Scalable Tools," Midwest Big Data Summer School (2019)
- 6. "Mining Thousands of Software Repositories," Midwest Big Data Summer School (2019)
- 7. "An Investigation of Routine Repetitiveness in Open-Source Projects: A Partial Reproduction of "A large-scale study on repetitiveness, containment, and composability of routines in open-source projects"," ICSE ROSE Festival (2019)
- 8. "Introduction to Scalable Tools for Big Data," Midwest Big Data Summer School (2016)
- 9. "Mining Programming Feature Usage at a Large Scale," MSR Asia Summit (2015)

2.1.6 Other Publications

- H. A. Nguyen, T. N. Nguyen, H. Rajan, and R. Dyer, "Towards combining usage mining and implementation analysis to infer API preconditions," in *Proceedings of the 1st ACM SIGSOFT International Workshop on Automated Specification Inference*, ser. WASPI. New York, NY, USA: Association for Computing Machinery, 2018. doi: 10.1145/3278177.3278182. ISBN 9781450360579 p. 15–16
- A. Shakiba, R. Green, and R. Dyer, "FourD: Do developers discuss design? revisited," in *Proceedings of the 2nd International Workshop on Software Analytics*, ser. SWAN. New York, NY, USA: Association for Computing Machinery, 2016. doi: 10.1145/2989238.2989244. ISBN 9781450343954 p. 43–46
- R. D. Fernando, R. Dyer, and H. Rajan, "Event type polymorphism," in *Proceedings of the 11th Workshop on Foundations of Aspect-Oriented Languages*, ser. FOAL. New York, NY, USA: Association for Computing Machinery, 2012. doi: 10.1145/2162010.2162020. ISBN 9781450310994 p. 33–38
- M. Bagherzadeh, G. T. Leavens, and R. Dyer, "Applying translucid contracts for modular reasoning about aspect and object oriented events," in *Proceedings of the 10th International Workshop on Foundations of Aspect-Oriented Languages*, ser. FOAL. New York, NY, USA: Association for Computing Machinery, 2011. doi: 10.1145/1960510.1960517. ISBN 9781450306447 p. 31–35
- 5. **R. Dyer**, M. Bagherzadeh, H. Rajan, and Y. Cai, "A preliminary study of quantified, typed events," in *Empirical Evaluation of Software Composition Techniques, A workshop affiliated with AOSD*, ser. ESCOT, 2010
- W. Baelen, Y. Cai, R. Dyer, and H. Rajan, "Feature volatility assessment," in 14th International Conference on Software Product Lines, Volume 2, ser. SPLC. Lancaster University, 2010, p. 33–34
- R. Dyer and H. Rajan, "A decision tree-based approach to dynamic pointcut evaluation," in *Proceedings of the 2nd Workshop on Virtual Machines and Intermediate Languages for Emerging Modularization Mechanisms*, ser. VMIL. New York, NY, USA: Association for Computing Machinery, 2008. doi: 10.1145/1507504.1507508. ISBN 9781605583846
- 8. H. Rajan, **R. Dyer**, Y. Hanna, and H. Narayanappa, "Preserving separation of concerns through compilation," in *Software Engineering Properties of Languages and Aspect Technologies, A workshop affiliated with AOSD*, ser. SPLAT, 2006

2.2 Grantsmanship Record

- 2.2.1 Externally Funded Research Grants
 - [G1] NSF, CRI: CI-P: Towards a Program Analysis Collaboratory, Total: \$100,000, BGSU: \$46,546 (apportionment: 100%), 08/2018–07/2020, PI (BGSU): Robert Dyer, PI (Boise State): Elena Sherman, NSF 1823294,
 - [G2] NSF, SHF:Large:Collaborative Research: Inferring Software Specifications from Open Source Repositories by Leveraging Data and Collective Community Expertise, Total: \$1,604,479, BGSU:
 \$214,843 (apportionment: 100%), 07/2015–06/2019, PI (BGSU): Robert Dyer, PI (Iowa State): Hridesh Rajan, PI (UCF): Gary Leavens, PI (Penn State): Vasant Honavar, NSF 1518776,
 - [G3] NSF, CI-EN: Boa: Enhancing Infrastructure for Studying Software and its Evolution at a Large Scale, Total: \$1,559,806, BGSU: \$132,889 (apportionment: 100%), 06/2015–05/2019, PI (BGSU): Robert Dyer, PI (Iowa State): Hridesh Rajan, NSF 1512947,
- 2.2.2 National and International Research Awards and Recognition
 - 1. 2021 Best Paper Award: MSR'21
 - 2. 2015 Best Paper Award: Modularity'15
- 2.2.3 Regional and Local Research Awards and Recognition
 - 1. 2016 BGSU Outstanding Early Career Award
 - 2. 2009 Dr Robert Stewart Early Research Award
 - 3. 2007 CRA Outstanding Undergraduate Award Honorable Mention

2.3 Other Research Accomplishments

- 2.3.1 Infrastructure Available to Community
 - 1. Boa, over 1,400 registered users from 36 countries, service and source code made publicly available, https://boa.cs.iastate.edu/
 - 2. PAClab-a Program Analysis ColLABoratory, service currently offline after moving from BGSU, but all source code is publicly available, https://paclab.dev/

3 TEACHING ACCOMPLISHMENTS (OTHER THAN CLASSROOM INSTRUCTION)

3.1 PhD Students

- 3.1.1 PhD Students Currently in Progress
 - 1. Samuel W. Flint
 - Computer Science, UNL
 - 100% funding
 - Expected graduation: May 2024
 - 2. Salomé Perez Rosero
 - Computer Science, UNL
 - Co-advised with Witawas Srisa-an
 - Expected graduation: May 2024

January 2021-current

February 2022–current

3.2 MS Students

1. Jigyasa Chauhan	January 2021–December 2022
Computer Science, UNL	
 100% funding Craduated: December 2022 	
Oraduated: December 2022 Rebecca Brunner	August 2010_August 2020
Computer Science BGSU	August 2017–August 2020
 100% funding 	
• Graduated: August 2020	
3. Che Shian Hung	August 2018–August 2019
Computer Science, BGSU	
• 100% funding	
• Graduated: August 2019	
4. Mohd Arafat	August 2016–August 2018
Computer Science, BGSU	
 100% lunding Graduated: August 2018 	
5 Shubbendra Shrimal	August 2014–August 2016
Computer Science BGSU	August 2014 August 2010
• 100% funding	
Graduated: August 2016	
3.2.2 Total Graduate Student Independent Research Projects Supervised	
At Bowling Green State University, I supervised 11 MS student projects (n	on-thesis).

3.3 Undergraduate Students

3.3.1	Undergraduate	e Students Supervi	ised in Independent	Research Study
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1. Dylan Kramer	August 2022–May 2023
Software Engineering, UNL	
• 10 hours per week	
• Funded by UNL First Year Research Experience (FYRE)	
2. Kevin Tran	August 2022–May 2023
Computer Science, UNL	
• 10 hours per week	
• Funded by UNL First Year Research Experience (FYRE)	
3. Alisson Ntwali	August 2022–current
Integrated Science, UNL	
• 12 hours per week	
• 100% funding	
4. Ali Keshk	August 2021–July 2022
Computer Science, UNL	

 10 hours per week academic year, 40 hours per week summe Academic year funded by UNL First Year Research Experier 100% funding during summer 	er nce (FYRE)
5. Kareem Keshk	January 2022–July 2022
Computer Science, UNL	
• 10 hours per week academic year, 40 hours per week summe	r
• 100% funding	
6. Aime Nishimwe	January 2022–May 2022
Integrated Science, UNL	
• 20 hours per week	
• 100% funding	Mars 2021 America 2021
7. Parul Aggarwal	May 2021–August 2021
Computer Science, UNLFunded by UNL UCARE Award	
3.4 Graduate Student Committee Membership	
3.4.1 Doctoral Dissertation Committee	
1. Nedasadat Taheri	March 2023–current
Engineering (Computer Engineering specialization), UNLExpected graduation: May 2024	
2. Kang-il Park	August 2022–current
Computer Science, UNL	
• Expected graduation: December 2023	
3. Lulah Alnaji	August 2016–August 2018
Mathematics, BGSU	
• Graduated: August 2018	
3.4.2 Masters Thesis Committee	
1. Jun Sun	January 2021–August 2021
Computer Science, UNL	
• Graduated: August 2021	
2. Asanga Mudiyanselage	January 2019–August 2020
Computer Science, BGSU	
• Graduated: August 2020	4 2010 M 2020
3. Blake Grills	August 2019–May 2020
Computer Science, BGSU Graduated: May 2020	
4 Justin Kleinknecht	August 2010 May 2020
Gomputer Science BGSU	August 2019–May 2020
Graduated: May 2020	
5. Jeremy Storer	August 2015–May 2016
Computer Science, BGSU	110guot 2010 1110g 2010
• Graduated: May 2016	

4 SERVICE ACCOMPLISHMENTS

4.1 Professional Service

4.1.1 Journal Paper Reviewer

- 1. IEEE Transactions on Software Engineering (TSE) (2022, 2020–2015)
- 2. 2022 Empirical Software Engineering (EMSE) (2022–2016, 2014)
- 3. Journal of Systems and Software (JSS) (2022–2021, 2018–2016)
- 4. 2020 IEEE Software
- 5. Science of Computer Programming (SCP) (2020)
- 6. Software: Practice and Experience (SPE) (2014)
- 7. Student Research Competition (SRC), at Modularity (2014)
- 8. Transactions on Aspect-Oriented Software Development (TAOSD) (2010)

4.1.2 Conference Paper Reviewer

- 1. International Conference on Software Engineering (ICSE) Software Engineering in Society (SEIS) (2024)
- 2. International Conference on Automated Software Engineering (ASE) (2023)
- 3. Mining Software Repositories (MSR) (2023–2021,2019–2017)
- 4. International Conference on Program Comprehension (ICPC) (2023-2022)
- 5. IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER) (2023–2022)
- 6. Innovations in Software Engineering Conference (ISEC) (2023–2022)
- 7. International Conference on Software Maintenance and Evolution (ICSME) (2022)
- 8. International Conference on Software Engineering (ICSE) Posters (2022)
- 9. International Conference on Software Maintenance and Evolution (ICSME) New Ideas and
- 10. Emerging Results Track (2021)
- 11. Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) (2020)
- 12. International Conference on Software Analysis, Evolution and Reengineering (SANER), Late Breaking Ideas track (2020)
- 13. Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) Artifact Evaluation (2019)
- 14. International Conference on Software Maintenance and Evolution (ICSME) Tool Demonstrations (2019)
- 15. Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) Formal Demonstrations (2018)
- 16. Automated Software Engineering (ASE) Tool Demonstrations (2018, 2016)
- 17. International Conference on Modularity (2015)
- 18. Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA) Artifacts (2015–2013)
- 19. External Review Committee member: ACM SIGPLAN conference on Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH) OOPSLA (2021–2020)

4.1.3 Leadership Positions in International and National Organizations

1. Elected to ACM SIGSOFT Executive Committee, Secretary-Treasurer (2018–2021)

- 2. Chair: ACM SIGPLAN conference on Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH) Doctoral Symposium (2021)
- 3. Organizing Committee: Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) (2020)
- 4. Organizing Committee: ACM SIGPLAN conference on Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH) (2020)
- 5. ACM SIGSOFT Webinar Coordinator (2015–2019)
- 6. Organizing Committee: Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) (2018)
- 7. Organizing Committee: Workshop on Automated Specification Inference (WASPI), at ESEC/FSE (2018)
- 8. **Co-chair**: Mining Software Repositories (MSR) Mining Challenge (2016)
- 9. Organizing Committee: International Conference on Software Engineering (ICSE) (2016)
- 10. Organizing Committee: Workshop on Virtual Machines and Intermediate Languages (VMIL) (2011)
- 11. Organizing Committee: Workshop on Virtual Machines and Intermediate Languages (VMIL) (2010)
- 12. Organizing Committee: Workshop on Virtual Machines and Intermediate Languages (VMIL) (2009)
- 13. Organizing Committee: Workshop on Virtual Machines and Intermediate Languages for emerging modularization mechanisms (VMIL) (2008)
- 4.1.4 Memberships in Professional Organizations
 - 1. Association for Computing Machinery (ACM) (2006–current)
 - 2. ACM Special Interest Group on Software Engineering (ACM SIGSOFT) (2006-current)
 - 3. ACM Special Interest Group on Programming Languages (2006–current)

4.1.5 Research Review Panels

- 1. Israel Science Foundation reviewer (2021)
- 2. U.S. National Science Foundation (NSF) (2017, 2019, 2020)

4.2 University Service

- 4.2.1 Membership Positions on University Wide Committees
 - 1. BGSU, Information Technology Committee (2018–2020)
 - 2. BGSU, Graduate Awards Committee (2017–2019)
 - 3. BGSU, ITS grants routing FMS application testing (2015, 2019)

4.3 College Service

- 4.3.1 Membership Positions on College Wide Committees
 - 1. UNL, College Curriculum and Academic Standards Committee (CCASC) (2022–current)

4.4 Unit Service

- 4.4.1 Leadership Positions on Unit Committees
 - 1. BGSU, Acting Chair Search Committee chair (2017–2018)

4.4.2 Membership Positions on Unit Committees

- 1. UNL, Undergraduate Curriculum Committee (2022–current)
- 2. UNL, Graduate Committee, CS Subcommittee (2021–2022)
- 3. UNL, Graduate Committee, Graduate Recruitment Subcommittee (2020–2022)
- 4. BGSU, Executive Committee (2019–2020)
- 5. BGSU, Continuous Improvement Committee (2019–2020)
- 6. BGSU, Graduate Committee (2015–2019)
- 7. BGSU, Computer Science Advisory Board (CSAB) (2014–2020)
- 8. BGSU, ACM Faculty Advisor (2014–2019)
- 9. BGSU, Faculty Search Committee (2016–2017)
- 10. BGSU, Course Evaluations ad-hoc committee (2018)
- 11. BGSU, B.S. in Software Engineering degree ad-hoc committee (2015–2016)
- 12. BGSU, Preview Day recruitment (2014–2017)
- 13. BGSU, Commencement (2019, 2017, 2015, 2014)

5 OTHER ACCOMPLISHMENTS

5.1 Professional Development

- 1. UNL, ECEC, Peer Observations of Classroom Activities (Fall 2022)
- 2. BGSU, CFE, Inclusive Pedagogy Workshop (Spring 2020)
- 3. BGSU, CFE, Guide to Teaching in the Active Learning Classroom Book Club (Spring 2019)
- 4. BGSU, OTN, Open Textbook Network Workshop (Fall 2017)
- 5. BGSU, CFE, Connecting Learning Expectations with Assessment (Fall 2016)
- 6. BGSU, Active Learning using Digital Technologies in the Classroom (Fall 2015–Spring 2016)
- 7. BGSU, CFE, Increase Student Engagement Using the Inverted Classroom (Fall 2015)
- 8. BGSU, Prism of Possibilities Conference (Fall 2015)
- 9. BGSU, CFE, Active Learning Classroom (Fall 2015)
- 10. BGSU, A&S Diversity Committee Faculty Mentoring Program (Fall 2015)
- 11. BGSU, New Faculty Learning Community (Fall 2014–Spring 2015)
- 12. BGSU, MyITLab Introduction (Fall 2014)
- 13. BGSU, Canvas 101, Canvas Basics (Fall 2014)
- 14. BGSU, Canvas 202, Online Course Design (Fall 2014)