

J. Adam Fischbach

Research Interests

Programming language design and implementation; computer science education

Education

- Ph.D. Computer Science and Engineering, August 2005
Thesis: Reasoning about Higher-Order Functions and Parameters
Advisor: John Hannan
The Pennsylvania State University, University Park, PA
- B.A. Computer Science, *summa cum laude*, May 1997
With Honors in Computer Science
Drew University, Madison, NJ

Teaching Experience

Widener University, Chester, PA
Associate Professor, 2013-current
Assistant Professor, 2008-2013
Visiting Assistant Professor, 2007-2008
Courses Taught:

- CSCI 462 – Compiler Design and Construction
- CSCI 452 – Operating Systems II
- CSCI 451 – Operating Systems I
- CSCI 356 – Artificial Intelligence II
- CSCI 355 – Artificial Intelligence I
- CSCI 344 – Programming Languages
- CSCI 311 – Mobile App Development
- CSCI 258 – Data Structures and Algorithms (Java)
- CSCI 257 – Object-Oriented Programming (Java)
- CSCI 152 – Introduction to Computer Science II (C)
- CSCI 151 – Introduction to Computer Science I (C)
- CSCI 131 – Introduction to Programming (Python)
- CSCI 101 – Introduction to PCs
- DMI 101 – Introduction to Informatics

Colby College, Waterville, ME
Visiting Assistant Professor, 2006-2007
Courses Taught:

- CS 357 – Operating Systems
- CS 333 – Programming Languages
- CS 151 – Structured Programming and Elementary Algorithms (Java)

The Pennsylvania State University, University Park, PA
Research Assistant, 1999-2001 & Fall 2002
Teaching Assistant, 1997-1998
Instructor, 1998-2003
Courses Taught:

- CMPSC 203 – Programming with Business Applications (Pascal)
- CMPSC 101 – Introduction to Algorithmic Processes (C++)

Peer-Reviewed Conference/Journal Publications

At Widener:

- Yana Kortsarts and Adam Fischbach. Incorporating Professional Ethics into an Introductory Computer Science Course. *Journal of Computing Sciences in Colleges*, vol. 29(3), 2014.
- Adam Fischbach. Visualization of Student-Implemented OS Algorithms in Java. *Journal of Computing Sciences in Colleges*, vol. 28(3), 2013.

Paper published twice:

- Kortsarts, Y, A Fischbach, J Rufinus, J M Utell, and S C Yoon. Developing Oral and Written Communication Skills in Undergraduate Computer Science and Information Systems Curriculum. *Information Systems Education Journal*, vol. 8(30), 2010.
- In *The Proceedings of the Information Systems Education Conference*, vol. 26, Washington DC, 2009.

At Penn State:

- Adam Fischbach and John Hannan. Specification and Correctness of Lambda Lifting. *Journal of Functional Programming*, pages 509-543, vol. 13(3), 2003.
- Adam Fischbach and John Hannan. Type Systems for Useless-Variable Elimination. In Olivier Danvy and Andrzej Filinski, editors, *Second Symposium on Programs as Data Objects*. Lecture Notes in Computer Science, no. 2053, pages 25-38, Aarhus, Denmark, May 2001. Springer-Verlag.

- Adam Fischbach and John Hannan. Specification and Correctness of Lambda Lifting. In Walid Taha, editor, *Workshop on Semantics, Applications, and Implementation of Program Generation*. Lecture Notes in Computer Science, no. 1924, pages 108-128, Montreal, Canada, September 2000. Springer-Verlag.

Peer-Reviewed Conference Presentations

- Fischbach, Adam, Yana Kortsarts, William Joel, Ting Liu. Interdisciplinary Programs, Panel presentation at CCSC Northeast, April, 2019. Abstract in *Journal of Computing Sciences in Colleges*, vol. 34(6), pp. 133-135, April 2019.
- Fischbach, Adam, Yana Kortsarts, Suk-Chung Yoon. Developing and Managing Interdisciplinary Programs, Poster presentation at CCSC Northeast, April 2019. Abstract in *Journal of Computing Sciences in Colleges*, vol. 34(6), pp. 155-156, April 2019.
- Fischbach, Adam, Yana Kortsarts. Developing Computer Forensics Minor – Challenges and Opportunities. Lightning talk at SIGCSE 2018. Abstract in *Proceedings of the 49th ACM Technical Symposium on Computer Science Education*, pp. 1105, Baltimore, MD, February 21-24, 2018.
- Fischbach, Adam, Yana Kortsarts, Suk-Chung Yoon. Developing Interdisciplinary Programs – Challenges and Opportunities. Poster presentation at SIGCSE 2018. Abstract in *Proceedings of the 49th ACM Technical Symposium on Computer Science Education*, pp. 1073, Baltimore, MD, February 21-24, 2018.
- Kortsarts, Yana, Adam Fischbach. Integrating Computer Ethics Components into the Computer Science Curriculum. Poster presentation at CCSC Northeast, April, 2012.
- Fischbach, Adam. Java Visualization of Student-Implemented OS Algorithms. Demo presentation at CCSC Northeast, April, 2011. Abstract in *Journal of Computing Sciences in Colleges*, vol. 26(6), 2011.
- Kortsarts, Yana, Timothy Dansdill, Adam Fischbach, Mark Hoffman and Janine Utell. Writing Intensive and Writing Extensive: A Continuum for Advanced Writing in Computer Science Education. Panel presentation at CCSC Northeast, April, 2010. Abstract in *The Journal of Computing Sciences in Colleges*, vol. 25(6), 2010.

Books

- Kortsarts, Yana, Yulia Kempner, Leonid Kugel, Adam Fischbach (Editor). *Problem Solving in C and Python: Programming Exercises and Solutions, Part I*, <https://www.smashwords.com/books/view/879372>, 2018

Academic Service (at Widener)

University Level:

- Implementation Committee on Assessment of Student Learning (2012-2015)
- Faculty Council Technology & Instructional Resources Committee (2012-2014)
- Intellectual Property Taskforce (2012-2014)
- Informatics Program Committee (2009-2011)

College Level:

- Digital Media Informatics Committee (2012-current)
 - Chair (2013-2014)
- Technology & Instructional Resources Committee (2015-2017)
- Academic Assessment and General Education Committee (2011-2014, 2018-2020)
- Dean Search Committee (2013-2014)
- A&S Secretary (2009-2011)
- Executive Committee (as A&S Secretary)
- Curriculum & Planning Committee (as A&S Secretary)

Division Level (Science):

- Science Assessment of General Education (2014-2017)
 - Chair (2015-2017)
- Science Strategic Planning Committee (2015)
- Curriculum & Planning Committee (2008-2010, 2013-2014, 2017-2018, 2020-2021)

Department Level (Computer Science):

- Chair (2014-current)
- ABET Coordinator (2008-2014)
- Acting Chair (2010-2011)

Honors

- Received Graduate Student Teaching Award from the Computer Science and Engineering Department at Penn State in 1999
- Member of Phi Beta Kappa