

Forrest Stonedahl, Ph.D.

CURRENT POSITION Assistant Professor of Computer Science
Augustana College Phone: (309) 794-7515
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PREVIOUS POSITIONS Centre College (Danville, Kentucky) 2011-2014

- Assistant Professor of Computer Science & Mathematics
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RESEARCH INTERESTS

- **Artificial Intelligence:** evolutionary computation, multi-agent systems
- **Complex Systems:** agent-based modeling, emergence, social networks
- **Computer Science Education:** curriculum development, decentralized thinking

EDUCATION **Northwestern University**, Evanston, Illinois USA

Ph.D., Computer Science 2011

- *Thesis:* “Genetic Algorithms for the Exploration of Parameter Spaces in ABMs”
- *Committee:* Uri Wilensky (adv), William Rand, Doug Downey, Luis Amaral
- Cognitive Science Specialization Certificate

M.S., Computer Science 2008

- *Advisor:* Uri Wilensky
- Cumulative GPA: 3.96/4.00

Carleton College, Northfield, Minnesota USA

B.A. Computer Science, Mathematics 2004

- Cumulative GPA: 3.96/4.00 (4.00 in majors)
- Summa Cum Laude
- Foreign Study: Budapest Semester in Mathematics *Fall 2003*

MANUSCRIPTS IN PREPARATION

- Pierrehumbert, J.B., **Stonedahl, F.**, & Daland, R. (In preparation). A model of grassroots changes in linguistic systems. Manuscript under revision. Draft available: <http://arxiv.org/abs/1408.1985>
- Ottino-Löffler, B., **Stonedahl, F.**, Veetil, V.P., & Wilensky, U. (Submitted). A General Model of Spatial Competition. GMU Working Paper in Economics No. 15-62. Available at SSRN: <http://ssrn.com/abstract=2697263>

- **Stonedahl, F.**, Stonedahl, S.H., Cheboi, N., Tazyeen, D., & Devore, D. (2017). Novelty and Objective-based Neuroevolution of a Physical Robot Swarm. *Proceedings of the 9th International Conference on Agents and Artificial Intelligence (ICAART 2017)*. February 24-26. Porto, Portugal.
- Stonedahl, S.H., Roche, K. R., **Stonedahl, F.**, & Packman, A. I. (2015). Visualizing Hyporheic Flow Through Bedforms Using Dye Experiments and Simulation. *JoVE (Journal of Visualized Experiments)*, (105) e53285. doi:10.3791/53285
- Lee, J., Filatova, T., Ligmann-Zielinska, A., Hassani-Mahmooei, B., **Stonedahl, F.**, Lorscheid, I., Voinov, A., Polhill, G., Sun, Z., & Parker, D.C. (2015) 'The Complexities of Agent-Based Modeling Output Analysis' *Journal of Artificial Societies and Social Simulation* 18 (4) 4 doi: 10.18564/jasss.2897
- Monical, C.* & **Stonedahl, F.** (2014). Static vs. Dynamic Populations in Genetic Algorithms for Coloring a Dynamic Graph. *Proceedings of the 2014 Conference on Genetic and Evolutionary Computation (GECCO '14)*. July 12-16. Vancouver, B.C., Canada.
- **Stonedahl, F.** & Stonedahl, S.H. (2012). Darwinian Rivers: Evolving Stream Topographies to Match Hyporheic Residence Time Distributions. *Proceedings of the 14th International Conference on Genetic and Evolutionary Computation (GECCO '12)*. July 7-11. Philadelphia, PA.
- **Stonedahl, F.** & Rand, W. (2012). "When Does Simulated Data Match Real Data? Comparing Model Calibration Functions using Genetic Algorithms." *Proc. of the 4th World Congress on Social Simulation (WCSS 2012)*. Sept. 4-7. Taipei, Taiwan.
- Anderson, D., Dellarocas, C., Katona, Z., Rand, W., & **Stonedahl, F.** (2011). "News, Networks and Users: How Network Properties affect Online News Consumption." Conference on Information Systems and Technology (CIST 2011). November 12-13, Charlotte, NC.
- **Stonedahl, F.**, & Wilensky, U. (2010). Evolutionary Robustness Checking in the Artificial Anasazi Model. In *Proceedings of the AAAI Fall Symposium on Complex Adaptive Systems: Resilience, Robustness, and Evolvability*. November 11-13, 2010. Arlington, VA.
- **Stonedahl, F.**, Rand, W., & Wilensky, U. (2010). Evolving Viral Marketing Strategies. *Proceedings of the 12th Annual Conference on Genetic and Evolutionary Computation (GECCO '10)*. July 7-11. Portland, OR.
- **Stonedahl, F.** & Stonedahl, S.H. (2010). Heuristics for Sampling Repetitions in Noisy Landscapes with Fitness Caching. *Proceedings of the 12th Annual Conference on Genetic and Evolutionary Computation (GECCO '10)*. July 7-11. Portland, OR.
- **Stonedahl, F.**, Rand, W., & Wilensky, U. (2008). CrossNet: A Framework for Crossover with Network-based Chromosomal Representations. *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO '08)*, pp. 1057–1064, July 12-16, Atlanta, GA, USA.
- Rand, W., & **Stonedahl, F.** (2007). The El Farol Bar Problem and Computational Effort: Why People Fail to Use Bars Efficiently. *Proceedings of the Agent 2007 Conference*, Nov. 15-17, Chicago, IL, USA.
- **Sondahl[†], F.**, Tissue, S. & Wilensky, U. (2006). Breeding Faster Turtles: Progress towards a NetLogo Compiler. *Proceedings of the Agent 2006 Conference*, Sept. 21-23, Chicago, IL, USA.

*Student research advisee.

[†]My surname changed from Sondahl to Stonedahl as a result of my marriage in 2007.

EDITED BOOK
CHAPTERS

- **Stonedahl, F.**, & Rand, W. (2014). When Does Simulated Data Match Real Data? Comparing Model Calibration Functions using Genetic Algorithms. In *Advances in Computational Social Science: The Fourth World Congress*, C. Tai, S. Chen, T. Ternaio, & R. Yamamoto (eds). Agent-Based Social Systems, vol. 11. pp. 297-313. Springer-Verlag. ISBN: 978-4-431-54846-1.
 - **Stonedahl, F.**, & Wilensky, U. (2011). Finding Forms of Flocking: Evolutionary Search in ABM Parameter-Spaces. *Multi-Agent-Based Simulation 2010*, T. Bosse, A. Geller, & C. M. Jonker (Eds). Lecture Notes in Artificial Intelligence 6532. pp. 61–75. Springer, Heidelberg.
 - **Stonedahl, F.**, Wilkerson-Jerde, M. & Wilensky, U. (2011). MAgICS: Toward a Multi-Agent Introduction to Computer Science. In M. Beer, M. Fasli, & D. Richards (Eds.), *Multi-Agent Systems for Education and Interactive Entertainment: Design, Use and Experience*. IGI Global.
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PEER REVIEWED
WORKSHOP
PAPERS

- **Stonedahl, F.** & Wilensky, U. (2010). Finding Forms of Flocking: Evolutionary Search in ABM Parameter-Spaces. *Proceedings of the MABS workshop at the Ninth International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS '10)*. May 11. Toronto, Canada.
 - **Stonedahl, F.**, Wilkerson-Jerde, M., & Wilensky, U. (2009) “Re-conceiving Introductory Computer Science Curricula through Agent-Based Modeling.” *Workshop on Educational Uses of Multi-Agent Systems at the Autonomous Agents and Multi-Agents Systems Conference (AAMAS '09)*, May 12. Budapest, Hungary. pp. 63-70.
 - **Stonedahl, F.**, Rand, W. & Wilensky, U. (2008). Multi-Agent Learning with a Distributed Genetic Algorithm: Exploring Innovation Diffusion on Networks. *ALA-MAS+ALAg Workshop at the Autonomous Agents and Multi-Agents Systems Conference (AAMAS '08)*, May 12-16, Estoril, Portugal.
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RESEARCH
PRESENTATIONS

- **Stonedahl, F.**, Ottino-Löffler, B., Veetil, V.P., & Wilensky, U. (2015) An Agent-Based Model of Spatial Competition in Markets. Presented at the 7th annual Complexity in Business Conference. November 13, 2015. Washington, D.C.
- Stonedahl, S.H., Gibson, C., Reiter, C., **Stonedahl, F.**, & Sawyer, A. H. (2015) Impact of Spatial Permeability Distribution Characteristics on Hyporheic Flow Using a Physical System and Simulations. Abstract H31K-02, *American Geophysical Union Fall Meeting*, December 16, 2015. San Francisco.
- **Stonedahl, F.** (2014) “Games, Geese, and Good Marketing.” *Invited research seminar at Augustana College*. January 30, 2014. Rock Island, IL.
- Stonedahl, S.H., Cooper, D. G., Everingham, J. M., Kraciun, M. K. , & **Stonedahl, F.** (2012) Quantifying the impact on hyporheic flow of assuming homogenous hydraulic conductivity distributions within permeameters. Abstract H13I-06, *American Geophysical Union Fall Meeting*, December 3, 2012. San Francisco.
- **Stonedahl, F.** (2011) Query-Based Model Exploration: Parameters and Paradigms. Invited seminar speaker at the *Center for the Study of Complex Systems* at the University of Michigan. November 14, 2011. Ann Arbor, Michigan.

- Stonedahl, S.H. & **Stonedahl, F.** (2011) Think-Tac-Toe: When are puzzles solvable? In the *Recreational Mathematics: New Problems and New Solutions* contributed papers session at the MAA MathFest 2011. August 5-6, Lexington, KY.
- Rand, W., **Stonedahl, F.**, & Wilensky, U. (2011) Evolving Viral Marketing Strategies. Presented by Rand at the *Advanced Research Techniques Forum*, June 5-8, Desert Springs, CA.
Stonedahl, F. & Mitchell, S. (2011) “Background & Overview of the Artificial Anasazi Model.” (Invited Session Facilitator.) *Epistemology of Modeling and Simulation Conference*. April 1-3. Pittsburgh, PA.
- **Stonedahl, F.** (2011) Invited “Fireside Chat” research presentation at the Ayers College of Commerce and Industry (residential college), Northwestern University, Evanston, IL. Jan. 19, 2011.
- **Stonedahl, F.** (2009) “NetLogo: Meditations on a Tool for Learning and Modeling.” [invited plenary presentation]. *Workshop on Educational Uses of Multi-Agent Systems at the AAMAS '09 conference*, May 12. Budapest, Hungary.
- **Stonedahl, F.**, Kornhauser, D., Russell, E., Brozefsky, C., Verreau, E., Tisue, S. & Wilensky, U. (2008). “Tinkering with Turtles: An Overview of NetLogo’s Extensions API.” *Presentation at the Swarmfest 2008 Conference*, May 11-13. Chicago, IL.
- **Sondahl†, F.** & Rand, W. (2007). “Multi-agent Communication Disorders: Dynamic Breeding Networks in Genetic Algorithms”. *Presentation at the Swarmfest 2007 Conference*, DePaul University, July 12-14. Chicago, IL, USA.

CONFERENCE
POSTERS

- Stonedahl, S.H. & Stonedahl, F., (2016). Teaching Hyporheic and Groundwater Flow Concepts Using an Interactive Computer Simulation. Abstract ED11B-0899, American Geophysical Union Fall Meeting, December 12. San Francisco, CA.
- Sward, A, **Stonedahl, F.**, & Stonedahl, S. H. (2016) Gotta catch em all: Pursuit curves for accelerating prey. MathFest. August 3-6, 2016 Columbus, OH.
- Wojcinski, E.* , & O’Brien, K.*. (2015). Agent-Based Modeling of Ebolavirus in Sierra Leone. Celebration of Learning Student Research Symposium. May 6, 2015. Augustana College.
- Borg, K. T., Stonedahl, S. H., **Stonedahl, F.** (2014). Unique Solvability of Certain Grid-based Logic Puzzles. Sixth Annual Illinois-Iowa ACS Undergraduate Research Conference. November 15, 2014. Davenport, IA.
- Stonedahl, S.H., **Stonedahl, F.**, Lohberg, M., Lusk, K. and Miller, M. (2013). Photogrammetric Method and Software for Stream Planform Identification. Abstract H43E-1506, American Geophysical Union Fall Meeting. Dec. 12, 2013. San Francisco.
- Lohberg, M.* , Lusk, K., Miller, D., **Stonedahl, F.** and Stonedahl, S. H. (2013). Investigating Methods of Stream Planform Identification. Abstract ED33D-0794, American Geophysical Union Fall Meeting. Dec. 11, 2013. San Francisco.

*Presented by undergraduate student research advisee.

- Lusk, K.* , Lohberg, M., Miller, D., **Stonedahl, F.**, and Stonedahl, S. H. (2013). Investigating Photogrammetric Methods for Stream Planform Identification. Fifth Annual Illinois-Iowa ACS Undergraduate Research Conference. November 16, 2013. Davenport, IA.
- **Stonedahl, F.**, Rand, W., & Anderson, D. (2011) When Does Simulated Data Match Real Data?: Exploring Model Calibration Functions using Evolutionary Computation. *Poster presented at the 13th Annual Conference on Genetic and Evolutionary Computation (GECCO '11)*. July 12-16. Dublin, Ireland.
- Ottino-Löffler, J.* & **Stonedahl, F.** (2011). “An Agent-Based Model of Polarization in Political Networks.” **Best Student Poster Award**, *Presented at the 2011 Complexity Conference*, March 6-7. Northwestern University, Evanston, IL.
- **Stonedahl, F.** (2011). “Evolutionary Robustness Checking in the Artificial Anasazi Model” *Presented at the 2011 Complexity Conference*, March 6-7. Northwestern University, Evanston, IL.
- **Stonedahl, F.**, Rand, W., & Wilensky, U. (2010). “Discovering Viral Marketing Strategies for Social Networks.” *Poster presented at the Workshop on Information in Networks (WIN 2010)*. Sept. 24-25. New York University, Stern School of Business, New York, NY, USA.
- **Stonedahl, F.** (2009). “Evolutionary exploration of parameter spaces in agent-based models: A case study in flocking behavior.” *Poster presented at the NICO Complexity Conference*, Sept. 1-3. Northwestern University, Evanston, IL, USA.
- Stonedahl, S.H. & **Stonedahl, F.** (2009). “Quantifying Fitness Landscapes Robustness to Noise and Uncertainty.” *Poster presented at the NICO Complexity Conference*, Sept. 1-3. Northwestern University, Evanston, IL, USA.
- **Sondahl†, F.** & Rand, W. (2007). “Evolution of Non-Uniform Cellular Automata using a Genetic Algorithm: Diversity and Computation”. *Poster presented at the Genetic and Evolutionary Computation Conference (GECCO '07)*, July 7-11, London, UK.

UNDERGRADUATE
RESEARCH
ADVISING

- Advisees for undergraduate student projects:
 - David Devore, Danya Tazyeen, Nelly Cheboi *multi-agent robotics*
 - Caleb Gibson, Caleb Reiter (USRI @ SAU.) *heterogeneous sediment simulation*
 - Ethan Wojcinski, Katie O’Brien *Ebola outbreak modeling*
 - Lindsey Pack, Siruo Wang *Markov models/clustering of ABM data*
 - Michael duPont, Zach Trette *robotic theater/drama*
 - Jeff Elam, Brooks Johnson, Cyrus Xi, John Kehr *GPS messaging app.*
 - Michelle Lohberg, Kyle Lusk, David Miller (USRI @ St. Ambrose Univ.) *stream planform photogrammetry*
 - Cara Monical (J.C.Y. scholar) *genetic algorithms for dynamic graph coloring*
 - Matthew Gidcomb *NLP/text analysis of political speech*
 - Sergey Krilov & Rumou Duan *3-D agent-based model visualization*
 - Jules Ottino-Löffler *political economics simulation*
 - Daniel Kim & Wenhao Sun *agent-based hydrogen desorption model*
 - Bertrand Ottino-Löffler *modeling competition in economic markets*
 - Greg McGlynn (Murphy scholar) *parapatric speciation model*

EDUCATIONAL
PRESENTATIONS
& SEMINARS

- Stonedahl, S.H., Reiter, C, & **Stonedahl, F.**, “Introducing Computer Programming into a Projectile Motion Lab”, American Association of Physics Teachers (Iowa Section), Central Academy, Des Moines, IA. Nov. 7, 2015.
- **Stonedahl, F.** & Stonedahl, S.H. “Puzzles and proofs: an adventure in logic, linear algebra, and graph theory”, Invited presentation, Engineering and Physics Departmental Seminar, St. Ambrose University. Oct. 7, 2015.

TEACHING
EXPERIENCE

Augustana College (assistant professor)

- CSC-INTR: Internship with web startup *Winter 2016-17*
- CSC 399: [I.S.]* Unsupervised ML *Winter 2016-17*
- CSC 490: Senior Inquiry [project course] *Spring 15,16, Winter 16-17*
- CSC 330: Computer Architecture *Winter 2016-17*
- CSC 211: Introduction to Computer Science I *Winter 14-15,15-16, Fall 2016*
- CSC 285: Software Development *Fall 2014, 2015, 2016*
- CSC 332: Operating Systems *Spring 2016*
- CSC 320: Principles of Artificial Intelligence *Winter 2015-16*
- CSC 399: [I.S.] Coding Challenges *Fall 2015*
- Summer Academy: Art, Science & Industry of Coding *Summer 2015*
- CSC 121: Explorations in Computing *Fall 2014, Spring 2014, Fall 2015*
- CSC 400: [I.S.] Prolog Language *Spring 2015*
- CSC 399: [I.S.] Ebola Modeling *Winter 2014-15*

Centre College (assistant professor)

- CSC 401: [I.S.] Markov Models & Clustering *Spring 2014*
- CSC 332: Design and Analysis of Algorithms *Spring 2012, 2014*
- CSC 117: Introduction to Computer Science *Fall 2013, Spring 2013, 2014*
- CSC 271: Introduction to Computational Art *Jan. 2012, Jan. 2014*
- CSC 401: [I.S.] Android Application Development *Fall 2013*
- CSC 401: [I.S.] Integrative Robotics and Drama *Fall 2013*
- CSC 390: Programming Challenges *Fall 2013*
- MAT 110: Math in Our Society *Fall 2013, Fall 2011*
- CSC 401: [I.S.] Genetic Coloring of Dynamic Graphs *2012-2013*
- CSC 339: Topics in Artificial Intelligence *Spring 2013*
- MAT 190: Discrete Mathematics *Spring 2013, Spring 2012*

*[I.S.] = Independent/Directed Study

- CSC 402: [I.S.] Political Debate Text Analysis *Fall 2012*
- CSC 400: [I.S.] Functional Programming in Scala *Fall 2012*
- CSC 341: Principles of Programming Languages *Fall 2012*
- MAT 140: Differential Calculus with Review *Fall 2012*
- CSC 401: [I.S.] Computational/Neural Modeling *Fall 2011*
- CSC 334: Theoretical Foundations of Computer Science *Fall 2011*

Northwestern University (teaching assistant)

- EECS 372/472: Designing and Constructing Models with a Multi-Agent Language *Spring 2009, 2011*
- EECS 111: Fundamentals of Computer Programming *Fall 2007, 2010*
- EECS 349: Machine Learning *Fall 2009*
- EECS 395-20: Intermediate Computer Graphics *Winter 2008*
- EECS 395-24: Comp. Graphics & Movie Merge Algorithms *Winter 2008*

Instructional Tutorials

- **Stonedahl, F.** “Hour of Code”, Introductory programming workshop. Math and Computer Science Dept. Seminar, Augustana College. *December 2015*
- **Stonedahl, F.**, Weintrop, D., Blikstein, P. & Shannon, C. “NetLogo: Teaching with Turtles and Crossing Curricular Boundaries”. Workshop at 44th ACM Technical Symposium on Computer Science Education (SIGCSE). Denver, CO. *March 2013*
- **Stonedahl, F.** & Stonedahl, S.H. “Introduction to Multi-Agent Computer Simulation using NetLogo”. Summer Research Institute Workshop at St. Ambrose University. Davenport, IA. *July 2012*
- Rand, W., **Stonedahl, F.**, & Kornhauser, D. (2009). “Complex Adaptive Systems Tutorial: Agent-Based Modeling.” Assistant instructor. *AAAI Fall Symposium*. Arlington, VA, USA. *Nov. 2009*
- **Stonedahl, F.**, & Wilkerson-Jerde, M. “Constructing, Analyzing and Critiquing Agent-Based Models”. Co-leader. Tutorial at the *NICO Complexity Conference*, Northwestern University, Evanston, IL, USA. *Sept. 2009*
- Unterman, J., & **Stonedahl, F.** “Intro. to Agent-Based Modeling using NetLogo.” Co-leader. Tutorial at *Swarmfest 2007 conference*, Chicago, IL, USA. *July 2007*
- “Introduction to Agent-Based Modeling using NetLogo.” Assistant Instructor. Workshop at the *Agent 2006 conference*. Chicago, IL, USA. *Sept. 2006*
- “NetLogo Workshop for Texas Instruments’ Educators”. Assistant Instructor. Northwestern University, Evanston, IL, USA. *July 2006*

Teaching Young Students / Outreach

- STEM outreach booth volunteer at IA state fair 2013
 - Judge for First Lego League Qualifier, Quad Cities Dec. 2012
 - McCormick annual *Career Day for Girls* outreach program for 6-12th grade girls. Co-led research demos/hands-on activities. 2009-2011
 - Northwestern University annual *Take Our Daughters to Work Day*. Led and/or assisted with computer programming tutorial. 2007-2009
 - *Constructing For Learning* club: robotics & technology demos at the RefugeeOne youth outreach program. 2010
 - North Shore Home Educators MATHCOUNTS program for middle school students. Instructor & coach. 2008-2011
→ *5th Place Team* at the 2011 Illinois State Competition
 - North Shore Home Educators Math Olympiad program for elementary & middle school students. Instructor. 2006-2008
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GRANTS, HONORS & AWARDS

Augustana College

- New Faculty Research Award: *Simulation Software Devel.* (\$2700) 2015-16
- Faculty-Student Summer Partner Grant: *Evolving Robot Team* (\$1320) 2015
- Course Adaptation Award: *Blended Learning for CSC 211* (\$1500) 2015-16
- New Faculty Research Award: *Multiagent Robots* (\$3950) 2014-15

Centre College

- Associated Colleges of the South (ACS) Faculty Advancement Grant, Co-PI “An ACS-wide Conversation about MOOCs and the Liberal Arts”, \$10,000 2013
- Proposal for special institutional funds to purchase 3-D printer. \$4,430 2012
- Centre College Summer Research Grant, (Faculty Development Committee) “Text mining for political debate analysis”, \$4000 2012

Northwestern University

- Quest HPC allocation (co-wrote with advisor), 250K CPU-hours 2010-2011
- Murphy Society grant (co-wrote with advisor), \$69,000 2009-2011
- Student travel grants/awards (from NU, AAI, ACM), ≈ \$4,000
- First place prize, *Art of Evolution* exhibition February 2009
- First place prize, NetLogo Annual Pi Day Contest March 2008
- William Cabell Fellowship 2005-2006

Carleton College

- Distinction in Math & Computer Science senior projects 2004
 - Phi Beta Kappa & Sigma Xi 2003-2004
 - National Merit Scholarship Recipient 2000-2004
 - Noyes Prize recipient Sept. 2003
 - Exemplary Writing Portfolio award June 2001
 - Annual Dean’s List 2000-2004
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PROFESSIONAL
EXPERIENCE &
SERVICE

- Service at Augustana College
 - Member, Educational Policy Committee *2015-present*
 - Member, Augustana Future Initiatives Think Tank (A-FITT) *2016-present*
 - Member, CORE Faculty Advisory Board *2014-present*
 - Coach, ACM Programming Contest Team *2014-present*
 - Faculty mentor, Augustana Photography Club *2014-present*
 - First Year Advisor *2015-2016*
 - Coach, William Lowell Putnam Competition *2014*
 - Member, Sigma Xi Chapter *2014-present*
 - Member, Phi Beta Kappa Chapter *2014-present*
- Service at Centre College
 - Treasurer, Phi Beta Kappa, Beta Chapter of Kentucky *2013-2014*
 - Assistant coach, ACM programming team, Centre College (2011-2013)
 - Chair, Instructional and Technology Resources Committee *2013-2014*
 - Steering Committee member *2013-2014*
 - Mellon Grant working group on UG research in the curriculum *2013-2014*
 - Chair, Computational Science Minor Investigation Committee *2012-2014*
 - Undergraduate Research Committee member *2012-2014*
 - Institutional Review Board member *2012-2014*
 - Mathematical Association of America liaison *2011-2013*
 - College Council member *2012-2013*
- External Service & Activities
 - Reviewer for PLoS-ONE *2011,2015*
 - Program committee, GECCO conference *2012-2016*
 - Program committee for Computational Social Science Society of the Americas conference. *2015*
 - Attended the ACS Focus Forum on Adult Education & Blended Learning *2013*
 - Editorial Review Board member, SAGE Open *2013*
 - Article editor for SAGE Open *2013,2015*
 - Reviewer for the journal *Environment and Planning B* *2013*
 - ECoMASS Workshop Chair (at GECCO Conference) *2011-2013*
 - Paper reviewer, ACM SIGCSE Conference *2012-2013,2016*
 - Program committee, Int'l Conf. on Interaction Design and Children *2011-2013*
 - Program committee, AAI Fall Symposium on Complex Adaptive Systems *2011*
 - Reviewer for ASME Int'l Design Engineering Technical Conferences (IDETC) & Computers and Information in Engineering Conference (CIE) *2009*
 - Affiliate Researcher, Smith School of Business, Univ. of Maryland *2009-2013*
 - Association for Computing Machinery (ACM) Member *2008-present*
 - ACM undergraduate chapter treasurer *2002-2003*
 - Association for the Advancement of A.I. (AAAI) member *2009-2011*
 - Swarm Development Group member *2010-2011*
 - NICO reading group member, leader (2010-2011) *2006-2011*

TECHNICAL
SKILLS

Languages: Java, Python, NetLogo, Meta/Scheme/Lisp, C/C++, Linux bash/shell, Matlab, Scala, Javascript/HTML/CSS

Tools: Eclipse, SciPy, L^AT_EX, gnuplot, git/GitHub, SVN, POV-Ray, ZCorp 3-D printing, OpenPBS/Torque (HPCC job scheduling), and a few other abstruse acronyms.

RANDOM /
TRIVIA

- Stonedahl, F. (2015) [Cover Artwork](#). *An Introduction to Agent-Based Modeling*. Textbook authored by Wilensky, U. & Rand, W. MIT Press.
- Stonedahl, F. (2012). [Cover Artwork](#). Mechanical Engineering Magazine. Published by the American Society of Mechanical Engineers. Vol. 134, No. 3. March 2012.
- In my free time (which seems all too rare lately), I enjoy birding, crocheting, photography, baking banana bread, playing the piano, downhill skiing, and creating math puzzles and logic riddles.
- In 2005, I starred in an instructional DVD about learning to hand-throw pottery.
- In 2004, I was captain of the IM “broomball” team that won the team spirit award.
- In 2004, I wrote a play entitled “Granny Wolfe” (a modern-day version of *Little Red Riding Hood*), which was publicly performed.
- From 2002 to 2004, I served as President of the Carleton College Croquet Society.
- In 2003, I scored 38 points on the [William Lowell Putnam exam](#), ranking 137.5 out of 3615 undergraduate mathematicians competing.
- As a youth, I had a pet rabbit that lived on the roof.