Jean Griffin
Curriculum Vitae
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Director of Computer Science Partnerships   E-mail: griffin@seas.upenn.edu
Netter Center for Community Partnerships   Phone: 484-574-4541
University of Pennsylvania   U.S. Citizen
133 S. 36th St., Suite 519
Philadelphia, PA 19104

Education
- Doctoral Student
  University of Pennsylvania Graduate School of Education, Philadelphia PA
- M.S.E. Computer Science, 1990
  University of Pennsylvania School of Engineering and Applied Sciences, Philadelphia PA
- B.A. Computer Science, *Honors, Phi Beta Kappa*, 1983
  Mills College, Oakland CA

Employment
- **Director of Computer Science Partnerships**, 2011–present
  Netter Center for Community Partnerships, Univ. of Pennsylvania, Philadelphia PA
- **Lecturer**, 2002–2012
  Department of Computer and Information Science, Univ. of Pennsylvania, Phila. PA
- **Visiting Professor**, 2001-2002
  Department of Computer Science, Swarthmore College, Swarthmore PA
- **Software Engineer**, 1997–2000
  Film East, Marlton NJ
- **System Administrator**, 1996–1997
  Swarthmore College, Swarthmore PA
- **Software Developer**, 1993-1996
  Independent Contractor, Swarthmore PA
- **Research Associate**, 1988-1990
  University of Pennsylvania Graphics Lab, Philadelphia PA
- **Instructor**, 1983–1987
  AT&T Technologies Education Center, Hopewell NJ
- **System Administrator**, 1982–1983
  Academic Computing Center, Mills College, Oakland CA

Summer Employment
- **Director, Boot Up! Camp (**for minority public high school students), 2010-2012
  Schools of Engineering and Education, University of Pennsylvania, Philadelphia PA
- **Director, Google CS4HS Workshop** (for high school teachers), 2010-2012
  University of Pennsylvania 2010-2011; Villanova PA, 2012
- **Instructor** (of advanced high school students), 2005-2011
  Summer Academy in Applied Science & Technology, Univ. of PA, Philadelphia PA
- **Instructor** (of incoming Penn freshmen), 2003-2006
  Pre-Freshman Program, University of Pennsylvania, Philadelphia PA

Honors, Awards, and Recognitions
- Phil Beta Kappa, Elizabeth Mudd Prize for Scholarship, Mills College, 1983

Grants
- NSF BPC #0940511, Penn COMP-ACT: *A College Service Learning Course to Promote and Increase COMPutational Thinking and ACTivities in Afterschool and Summer Programs.* Co-PI (one of five Penn PI/Co-PIs). $615K over 3 years, 2010 – present.
- Lenovo Group, Ltd. (corporate sponsorship through Penn's development office). *Hop, Skip, and Jump: a Pedagogical Progression to Promote Computational Thinking from Schoolyard Games to Block-Based Programming to Text-Based Programming.* PI. 2011-2012. $30K.
- NSF CNS #0938336, *Using Computational Thinking to Model a New Course: Advanced Placement Computer Science: Principles* (PI: Owen Astrachan; Co-PIs: Amy Briggs, Lien Diaz). Sub-contractor and Pilot II *CS Principles* instructor, 2011-2012, $20K.
- Google *CS4HS* (Computer Science for High School), ~$15K/year, 2010-2012.
- Swarthmore College faculty grant (motion capture for computer animation course), 2002, $1K.

Publications
- Griffin, J., Kaplan, E., Burke, Q. (2012, March). *Debug'ems and Other Deconstruction Kits for STEM Learning.* IEEE Integrated STEM Education Conference, Trenton NJ.
- Kafai, Y., Griffin, J., et al., (2013, March). *A Cascading Mentoring Pedagogy in a CS Service Learning Course to Broaden Participation and Perceptions.* Paper to be presented at the SIGCSE conference in Denver, CO.
- Arpaci-Dusseau, A., Bauer, M., Franke, B., Griffin, J., Morelli, R., Uche, C., Astrachan, O., et al., (2013, March). *Computer Science Principles: Analysis of a Proposed Advanced Placement Course.* Paper to be presented at the SIGCSE Technical Symposium in Denver, CO.

Panel, Poster and Workshop Publications
- Burke, W. Q., Kafai, Y., Griffin, J., et al. (2012, March). *The Reflective Mentor.* Poster presented at the SIGCSE conference in in Raleigh, NC.
- Griffin, J., Kaplan, E., Burke, W. Q & Kafai, Y. B. (2011, March). *Deconstruction Kits in Scratch: Designing Scratch Debugems for Learning Core Programming Concepts.* Poster presented at the SIGCSE conference in Dallas, TX.
- Kaplan, E., Griffin, J., Kafai, Y. B. & Burke, W. Q. (2011, March). *A Deconstruction Kit for the LilyPad Arduino: Designing Debugging Sets for Learning about Circuitry & Programming for High School Students.* Poster presented at the SIGCSE conference in in Dallas, TX.
- Griffin, J., Menezes, R., Chen, L., Palsetia, D. (2010, March). *BotWorld, an "Objects-First, Algorithms Early" Java Microworld.* Workshop presented at the SIGCSE conference in in Milwaukee, WI.
- Dougherty, J.P., Griffin, J., Pirmann, T., and Powell, R. *Certification and standards for computing education in Pennsylvania.* Panel presentation submitted to The Twenty-fifth Annual Consortium for Computing Science in Colleges (CCSC) Eastern Conference, Villanova University, Villanova, PA, October 30 – 31, 2009.

Trademarks
- *Debug'em*, *Bits Bots Bugs*, *Compute to Create* (pending).

Educational Software
- *BotWorld* (a Pacman-like microworld for learning Java), developed with F. Pereira and University of Pennsylvania students, *htttp://www.seas.upenn.edu/~botworld*, *2005-2011*.
- *Debug'ems*, https://sites.google.com/site/scratchdebugems/, 2010-present.

Course Development and Teaching

School	Course	Description	Developed	Taught
Penn	CIS 101	**Compute to Create** *Introductory computing course for non-engineering students. A CS Principles and a service-learning course. Satisfies formal reasoning requirement. Approximately 100 youth were served in a variety of outreach activities.*	Y	Spr '12
	CIS 110	**Introduction to Computer Programming** *Introductory computing with Java. Enrollment grew from 50 to 250+ in seven years, 2004-2011.*	Y	Fall '04-10 Spr '05-11
	EAS285	**Teaching Computer Science Basics** *In this service- learning course, students learned principles and practices of software engineering and education, developed educational software, and taught computing to high school youth. Prerequisite: prior programming experience. The summer courses hosted Boot Up! computing camps for Philadelphia minority high school students, sponsored by NSF BPC #0940511.*	Y	Spr '08,10,11 Sum '10, 11
	ESE 116	**C Programming in the Unix Environment** *An introductory C language course. Prerequisite: prior programming experience. Enrollment increased by ~120% in 3 years (43 students in 2005-6, 96 students in 2008-9)*	Y	Fall '05-08 Spr '06-09
	CIS 399	**Unix System Administration**	Y	Fall '08
	SAAST	**Summer Academy for Applied Science and Technology, Computer Science** SAAST is a three-week, residential, selective summer academy for high school students. Students met in the credit-bearing computer science class ~8 hours each weekday.	Y	Sum '05-11
	PFP	**Pre-Freshman Program, Computer Science** PFP is a four-week residential program that provides academic support for incoming freshmen. Students engaged in the computer science class for a few hours each weekday.	Y	Sum '03-06
Swarthmore	CS 91	**3D Animation and Scientific Visualization**	Y	Spr '02
	CS 35	**Algorithms and Object Oriented Programming** (with Java),	N	Fall '01
	CS 21	**The Imperative Paradigm** (C and Unix)	N	Fall '01, Spr '02

Workshops
- *App Inventor for Android*, Google CS4HS, Villanova PA, August 14, 2012.
- *Scratch from Middle School to College*, Google CS4HS, Villanova PA, August 13, 2012.
- *Create Your Own Mobile Apps with App Inventor*, for Science Leadership Academy high school students, The Franklin Institute, Philadelphia PA, February-March, 2012.
- *Acting Out with Scratch, and Debug'ems*, Scratch Day at the University of Pennsylvania Graduate School of Education, Philadelphia, PA, May 19, 2012.
- *Create Your Own Game (or Mobile App)*, WICS High School Day for Girls, University of Pennsylvania, April 2010, 2011, 2012.
- *Create Your Own Game*, AWE Gears Workshop for Girls, University of Pennsylvania, Spring, 2011.
- *Scratch*, Google CS4HS, Philadelphia PA, August, 2011.
- *CS Unplugged*, Google CS4HS, Philadelphia PA, August, 2010.
- *Objected Oriented Programming with Java*, Google CS4HS, Philadelphia PA, August, 2010.
- *BotWorld, an "Objects-First, Algorithms Early" Java Microworld*, ACM SIGCSE Technical Symposium, Milwaukee WI, March, 2010.
- *Java Programming* (with Dave Matuszek), ACM JETT (Java Engagement for Teacher Training, Univ. of Pennsylvania, July 2004, 2005.

Invited Talks and Panels
- *Block-Based Programming with Scratch and App Inventor for Android*, Princeton IEEE/ACM chapter meeting, Princeton University, Nov 15, 2012.
- *Computer Science Principles (*panel), Google CS4HS, Villanova Conference Center, August 13, 2012.
- *The Computer Science Principles Project*, Tapestry Workshop, University of Pennsylvania, July 12, 2012.
- *Debug'ems and Other Deconstruction Kits for STEM Learning*, Princeton IEEE/ACM Integrated STEM Education conference, Ewing, NJ, March 9, 2012.
- *Computer Science in High School, College, and Beyond*, National Consortium of Specialized Secondary Schools for Math, Science, and Technology Conference, Washington DC, March 12, 2009.

Service
- Developer and instructor of Penn service learning courses, 2008-present.
- Collaborator with Penn Netter Center for Community Partnerships (Moelis Access Science) colleagues, providing STEM outreach to W. Philadelphia youth, 2011-present.
- Co-Director, *Reboot, Renew, Retreat* Workshop for high school teachers sponsored by CSTA (Computer Science Teachers Assn.), Google, etc., Villanova PA, Aug 13-15, 2012.
- Secretary, CSTA-Philly (Philadelphia Computer Science Teachers Assn.), 2012-present.
- Judge, C# programming competition, Univ. of PA Weiss Tech House, 2005.
- Faculty advisor, undergraduate senior thesis, Mary Obasi et al., 2004-5.
- Faculty advisor, Penn undergraduate Women In CS club, 2003 (inaugural year).
- President, Swarthmore Recreation Association, 2001-2002 (Board member 1999-2002).
- Coach, Swarthmore Recreation Association, 1997–2002.