

Kate Greene

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Current Affiliation:

Freelance journalist and author

July 2009 - present

Education:

University of Kansas, Physics M.S.

2004

Saint Mary College, Leavenworth, KS, Chemistry, B.S.

2001

Journalism and Writing Experience:

Current contributor to *The Economist*, *Technology Review*, *Stanford Magazine*, *Gizmodo*, *The Bold Italic*

Cast member of pilot radio series and podcast, *SonicSF*

Co-author of *Reality Mining: Using Big Data to Engineer a Better World* (MIT Press, 2011)

Technology Review (Information Technology Editor)

2005 - 2009

Directed coverage of topics in computer science, electrical engineering, and information technology for the website. Reported and wrote more than 350 articles for the website and magazine, commissioned freelance stories, contributed editing. Wrote two to three technology blog posts per week. Led multiple panel discussions at *Technology Review*'s annual innovation conference, EmTech, on topics including software-defined radio, optical computing, and women in technology. Judged ZINK Imaging's 2009 Zero Boundaries product design competition. Appeared on CNBC's *On the Money* commenting on Apple's iPhone.

Science News (Intern)

2005

Pitched, reported, and wrote feature stories and weekly news articles on a range of science topics including climatology, social networks, and space flight.

Freelance Writer

2004 - 2005

Contributed to *The Economist*, *New Scientist*, *SELF*, *Lawrence Journal World*, *Lawrence.com*, *Defense Transformation*, *Research/Penn State*, and the *Kansas Alumni Magazine*. Wrote newsletter articles for Higuchi Biosciences Center at the University of Kansas.

The Economist (Richard Casement Intern)

2004

Wrote news articles and features for the Science and Technology section. Contributed to the Books and Arts section with a book review.

The Launch Pad (Founder and Editor)

2002 - 2004

Edited newsletter for the University of Kansas chapter of the American Astronautical Society. Organized and managed editorial staff. Formatted and produced small monthly circulation of newsletters to students and faculty.

Bricks (Contributor)

1999 - 2001

Published stories in the Saint Mary College literary magazine on special relativity, the mathematics of the Tacoma Narrows bridge disaster, and the thermodynamics of the *Challenger* space shuttle disaster.

Speaking Experience:

Moderated Computer History Museum event, Into the Future: Man and Machines | In Conversation with Intel CTO Justin Rattner (2009)

Invited speaker at University of Kansas Physics Colloquium (2008). Discussed topics in science journalism.

Keynote panel moderator for Grace Hopper Celebration of Women in Computing Conference (2008)

Panel moderator at *Technology Review*'s Emerging Technology Conferences (2006 - 2008)

Panel moderator at the IIT Global Alumni Conference (2007)

Teaching Experience:

- University of Kansas (Physics Tutor) 2003 - 2004
Conducted weekly one-on-one tutoring sessions for college-level, calculus-based introductory physics.
- University of Kansas (Graduate Teaching Assistant) 2001 - 2002
Taught introductory physics laboratory sections, which included 15 – 20 minute background presentations to three sections of approximately 30 students each. Conducted office hours and led problem-solving sessions for individuals and groups of students. Graded lab reports and proctored exams.
- Saint Mary College (Mathematics Tutor) 2000 - 2001
Conducted weekly one-on-one tutoring sessions for middle school mathematics.

Leadership Experience:

- 48-Hour Film Project 2008, 2009
Executive producer and co-director of *The Trade Expert* and *Thunderfingers*, official entries in the San Francisco 48-Hour Film Project. Both films screened at the Roxy Theater in San Francisco.
- Bay Area Maker Faire 2008
Developed the concept of and led a small team to make a prototype for a fiber-optic light pipe – a passive indoor lighting system. Demonstrated the light pipe at the Bay Area Maker Faire. Project was featured in the *San Francisco Chronicle* and on Current TV.
- Amnesty International 2000 - 2001
President of Saint Mary College chapter of Amnesty International. Held monthly letter-writing meetings, led fundraisers.
- Saint Mary College Volleyball 1997 - 2000
Captain of the volleyball team, led team to three seasons with record wins and conference standings.

Research Experience:

- University of Kansas 2001, 2002 - 2004
Collaborated with small team of graduate research assistants to design and build a laboratory for analysis of mid-infrared semiconductor laser samples. Implemented LabView programs to coordinate laboratory equipment including Nd:YAG laser, spectrometer, oscilloscopes, boxcar integrator, and lock-in amplifier. Conducted multiple characterizations of laser and LED samples for publication. Published papers in the *Material Research Society Symposium Proceedings*, and *Journal of Applied Physics*.
- Saint Mary College 2000 - 2002
Devised and implemented an independent research project in which molecular simulations were used to determine an energy profile of isomers of the C₂₀ molecule. Presented a poster at the Midwest Regional meeting of the American Chemical Society. Published a paper in the *Journal of Computational Chemistry*.
- North Carolina State University 2000
Conducted research in Gerald Lucovsky's physics laboratory as a member of a select group of students awarded a Research Experience for Undergraduates grant by the National Science Foundation. Used ellipsometer and analytical methods to determine dielectric constant of alloys of zinc and zirconium-oxide. Deposited semiconductor samples using remote plasma enhanced chemical vapor deposition. Presented work at NC State physics colloquium.

Academic Publications:

- T.C. McAlpine, **K.R. Greene**, M.R. Santilli, L.J. Olafsen, *et al.* Pump Wavelength Tuning of Optical Pumping Injection Cavity Lasers for Enhancing Mid-Infrared Operation, (*Mater. Res. Soc. Symp. Proc.* 799, Boston, MA, 2003) Z4.7
- T.C. McAlpine, **K.R. Greene**, M.R. Santilli, L.J. Olafsen, *et al.* Resonantly pumped optical pumping injection cavity lasers, *Journal of Applied Physics*, 96(9): 4751-4754 (2004)
- Katherine R. Greene**, Kyle A. Beran: Isomers of C₂₀: An Energy Profile. *Journal of Computational Chemistry* 23(9): 38-942 (2002)

Journalistic Publications (selected):

September/October, 2010, "A Camera With a Brain," *Stanford Magazine*
June 24, 2010, "All Along the Watchtower," *The Bold Italic*, <http://thebolditalic.com/kategreene/stories/268-all-along-the-watchtower>
June 18, 2010, "Dark Pulses From a Quantum-Dot Laser," *Technology Review*, <http://www.technologyreview.com/computing/25641/>
June 11, 2010, "3-D Without the Glasses," *Technology Review*, <http://www.technologyreview.com/computing/25524/?a=f>
May 25, 2010, "An Invisible Touch for Mobile Devices," *Technology Review*, <http://www.technologyreview.com/communications/25380/>
March 22, 2010, "Quantum Dot Camera Phones," *Technology Review*, <http://www.technologyreview.com/communications/24840/>
December 28, 2009, "The Hunt for the Perfect Screen," *Gizmodo*, <http://gizmodo.com/5435257/the-hunt-for-the-perfect-screen>
December 12, 2009, "Read All About it," *The Economist Technology Quarterly Section*
September/October 2009, "A Touch of Ingenuity," *Technology Review*
September 30, 2009, "Building a Bionic Eye: Peering into the future," *The Economist*
March/April 2009, "Racetrack Memory," *Technology Review*
November/December 2008, "Open Up and Say Eureka," *Technology Review*
September/October 2008, "Where Cell Phones Go to Die," *Technology Review*
September 2, 2008, "A Chinese Challenge to Intel," *Technology Review*, <http://www.technologyreview.com/infotech/21322/?a=f>
November/December 2007, "What Is He Doing?" *Technology Review*
September/October 2007, "Illuminating Silicon," *Technology Review*
July 2007, "Holographic Video for Your Home," *Technology Review*
February 23, 2007, "The Promise of Personal Supercomputers," *Technology Review*, <http://www.technologyreview.com/infotech/18219/>
November 20, 2006, "Hyperlinking Reality via Phones," *Technology Review*, <http://www.technologyreview.com/infotech/21322/?a=f>
September 20, 2006, "Bringing Light to Silicon," *Technology Review*, <http://www.technologyreview.com/Infotech/17519/>
May 5, 2006, "Sensors without Batteries," *Technology Review*, <http://www.technologyreview.com/Infotech/16864/>
November 26, 2005, "Mars or Bust: Science helps those with the right stuff keep their stuff right," *Science News*
September 24, 2005, "Pack Rat Piles: Rodent rubbish provides ice age thermometer," *Science News*
June 25, 2005, "Aftershock: Being hit by lightning is something you'll never forget," *New Scientist*
March 20, 2005, "Change Your Life, Change Your Mind," *Kansas Alumni Magazine*
March 23, 2005, "Better Than a Poke in the Eye," *The Economist Technology Quarterly Section*
December 4, 2004, "About Face," *The Economist*
December 7, 2004, "Weird Science," *Lawrence Journal-World*
July 22, 2004, "Paradox Lost," *The Economist*
July 8, 2004, "Lie Detection: Making windows into men's souls," *The Economist*

Relevant Skills:

Familiarity with video and audio recording equipment and techniques. Proficient in video and editing software including Final Cut Pro, iMovie, and Audacity. Basic programming familiarity with HTML, LabView, C++, and PHP.

Awards/Honors:

Inducted into the Saint Mary College Hall of Fame, Volleyball (2008)
Science News Internship (2005)
Fellowship to attend Press Week sponsored by the Jackson Laboratory and Johns Hopkins (2005)
Richard Casement Internship (2004)
KU Research Assistantship (2002-2004)
KU Teaching Assistantship (2001-2002)
All-College Honors, Saint Mary College (2001)
National Science Foundation Fellow, Research experience for Undergraduates (2000)