

Dr. Aatish Bhatia

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Work

Associate Director, Engineering Education, Council on Science and Technology, Princeton University.
2013 - present.

Education

Ph.D., Department of Physics and Astronomy. Rutgers University. 2013

B.A. with Honors, Physics Major and Mathematics Minor. Swarthmore College. 2007

Publications

Yeast Growth Plasticity is Regulated by Environment Specific Multi-QTL Interactions

A. Bhatia, A. Yadav, J. Gagneur, C. Zhu, L. M. Steinmetz, G. Bhanot, H. Sinha. 2014. *G3: Genes, Genomes, Genetics*, 4(1).

Sporulation Genes Associated with Sporulation Efficiency in Natural Isolates of Yeast

P. Tomar, A. Bhatia, S. Ramdas, L. Diao, G. Bhanot, H. Sinha. 2013. *PLOS One*, 8(7), e69765.

Lactase persistence and lipid pathway selection in the Maasai

K. Wagh, A. Bhatia, G. Alexe, A. Reddy, V. Ravikumar, M. Seiler, M. Boemo, M. Yao, L. Cronk, A. Naqvi, S. Ganesan, A. J. Levine, G. Bhanot. 2012. *PLOS One*, 7(9), e44751.

Neurite Sprouting and Synapse Deterioration are Features of the Aging C. elegans Nervous System

M. Toth, I. Melentijevic, L. Shah, A. Bhatia, K. Lu, A. Talwar, H. Naji, C. Ibanez-Ventoso, P. Ghose, A. Jevince, L. Herndon, G. Bhanot, C. Rongo, D. Hall, M. Driscoll. 2012. *Journal of Neuroscience*, 32(26), 8778-8790.

What it feels like for a sperm. Chapter in *The Best Science Writing Online 2012, Scientific American Books*. Editors: B Zivkovic, J Ouellette.

Awards

Selected for inclusion in the Open Lab 2013 anthology of the Best Science Writing Online, 2013

ScienceSeeker Award, Best Psychology or Neuroscience Post, 2013

First Place, 3QuarksDaily.com Science Blogging Prize, 2012

India-US Physics Student Visitation Grant, awarded by the Indo-US Science and Technology Forum and American Physical Society, 2010

Richard J. Plano Outstanding Teaching Assistant Award, 2010

Kenneth William Defontes Jr. '72 Scholarship, 2006

Marion L. Dannenberg Scholarship, 2006

Howard Hughes Medical Institute Summer Research Fellowship, 2005 and 2006

Teaching Experience

Instructor, *Physics 106: Concepts of Physics for the Humanities and Social Sciences*, Rutgers University, Spring 2013

Teaching Assistant, *Physics 193: Physics for the Sciences I*, Rutgers University, Fall 2012

Instructor, *Shake, Rattle & Roll: Building Robots with a Sense of Balance*, The New Jersey Governor's School of Engineering and Technology, Summer 2012

Teaching Assistant, *Physics 204: General Physics II*, Rutgers University, Summer 2010

Teaching Assistant, *Physics 272: Honors Physics II*, Rutgers University, Spring 2010

Teaching Assistant, *Physics 271: Honors Physics I*, Rutgers University, Fall 2009

Teaching Assistant, *Physics 203: General Physics I*, Rutgers University, Summer 2009

Teaching Assistant, *Physics 124: Analytical Physics I-B*, Rutgers University, Spring 2009

Teaching Assistant, *Physics 193: Physics for the Sciences I*, Rutgers University, Fall 2008

Teaching Assistant, *Physics 203: General Physics I*, Rutgers University, Summer 2008

Teaching Assistant, *Physics 115: Extended Analytical Physics I*, Rutgers University, Fall 2007

Physics Clinician, Swarthmore College, Fall 2005 and Spring 2006

Synergistic Activities

Co-instructed a 100+ student enrollment introductory physics course for social science and humanities students at Rutgers University that addressed questions of societal relevance and incorporated peer instruction and interactive engagement through iClickers, undergraduate learning assistants, in-class workshops and social media. 2013

Author of *Empirical Zeal*, a blog on the Wired Science Network. Wrote online articles on peer-reviewed research and science and engineering concepts, with over 900,000 pageviews, and developed educational videos on fluid dynamics and relativity with over 2.5 million views. 2011-2014

Published in the Best Online Science Writing 2012 (Scientific American Books) and accepted for publication in the Best Online Science Writing 2013

Taught a workshop to 25 high school students in using Arduino to build self-balancing robots, as an instructor in the New Jersey Governors School of Engineering and Technology. Summer 2012

Mentored middle-school students in hands-on astronomy activities in a low-income school district of Newark, NJ as an Education Fellow, New York Academy of Sciences. 2011

Professional Memberships

American Association of Physics Teachers

American Society of Engineering Education

Last updated: February 20, 2014