

Christine Chung

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EDUCATION

University of Pittsburgh, Pittsburgh, PA
PhD in Computer Science, 2009
Evolutionary Solutions and Internet Applications for Algorithmic Game Theory

Teachers College, Columbia University, New York, NY
Master of Arts Degree in Mathematics Education, 2003

Cornell University, College of Engineering, Ithaca, NY
Master of Engineering Degree in Computer Science, 2000

Cornell University, College of Arts and Sciences, Ithaca, NY
Bachelor of Arts Degree in Computer Science, May 1999

RESEARCH INTERESTS

Algorithmic Game Theory (Evolutionary Game Theory, Mechanism Design, Bounding Inefficiency of Equilibria, Auction Theory), Algorithm Design and Analysis (Online Algorithms, Approximation Algorithms)

PROFESSIONAL EXPERIENCE

Connecticut College, New London, CT
June 2009 – present
Jean C Tempel Assistant Professor of Computer Science

University of Pittsburgh, Pittsburgh, PA
August 2005 – May 2009
Graduate Student Researcher, Teaching Assistant (Operating Systems, Algorithms Implementation, Undergraduate Algorithms, Graduate Algorithms, Theory of Computation, Algorithmic Game Theory)

Clarkstown South High School, West Nyack, NY
August 2003 – June 2005
Computer Science and Mathematics Teacher

Stuyvesant High School, New York, NY
Jan 2003 – May 2003
Student Teacher (Computer Science and Mathematics)

Marist College and
Dutchess County Community College, Poughkeepsie, NY
Jan 2002 – August 2002
Adjunct Lecturer (Statistics, Intro to Programming)

SporTVision, New York, NY

May 2001 – Dec 2001

Lead Operator. Traveled each week with *ESPN Sunday Night Baseball* to implement and integrate the Emmy-winning *K-Zone* effect system for each show.

Kraft Kennedy & Lesser, New York, NY

September 2000 – May 2001

Network Engineer/Consultant/Programmer. Worked in project teams to design, implement/ integrate and support computer networks for top law firms and companies.

Cornell University, Ithaca, NY

September 1999 – May 2000

Teaching Assistant (Intro to Computer Science, Discrete Structures)

Lucent Technologies, Bell Labs, Murray Hill, NJ

Summer 1998

Researcher. Worked with a verification group in the Computing Sciences Research department.

REFEREED PUBLICATIONS

Expanding CS1: applications across the liberal arts (with Bridget Baird). Consortium for Computing Sciences in Colleges, Northeast Region (CCSCNE), April 2010.

The power of fair pricing mechanisms (with Katrina Ligett, Aaron Roth, and Kirk Pruhs). Latin American Theoretical Informatics Symposium (LATIN) 2010.

Admission control mechanisms for continuous queries in the cloud (with Lory AlMoakar, Panos Chrysanthis, Shenoda Guirguis, Alexandros Labrinidis, Panayiotis Neophytou and Kirk Pruhs). IEEE International Conference on Data Engineering (ICDE) 2010.

SRPT is 1.86-competitive for completion time scheduling (with Tim Nonner and Alex Souza). ACM-SIAM Symposium on Discrete Algorithms (SODA) 2010.

Stochastic stability in internet router congestion games (with Evangelia Pyrga). Symposium on Algorithmic Game Theory (SAGT) 2009.

On the price of stability for undirected network design (with Giorgos Christodoulou, Katrina Ligett, Evangelia Pyrga, and Rob van Stee). Workshop on Approximation and Online Algorithms (WAOA) 2009.

The price of stochastic anarchy (with Katrina Ligett, Kirk Pruhs and Aaron Roth). Symposium on Algorithmic Game Theory (SAGT) 2008.

The online transportation problem: on the exponential boost of one extra server (with Kirk Pruhs and Patchrawat Uthaisombut). Latin American Theoretical Informatics Symposium (LATIN) 2008.

**INVITED
TALKS/
PRESENTATIONS**

Expanding CS1: applications across the liberal arts

- CCSCNE (Consortium for Computing Sciences in Colleges, Northeast Region), Hartford, CT, April 2010

The price of stochastic anarchy.

- Women In Theory Workshop Poster at Princeton University, Princeton, NJ, May 2008 (Invited by Tal Rabin)
- University of Freiburg in Freiburg, Germany, May 2008 (Invited by Susanne Albers)
- Max Planck Institut für Informatik (MPII) in Saarbrücken, Germany, May 2008 (Invited by Rob Van Stee)
- Symposium on Algorithmic Game Theory (SAGT) in Paderborn, Germany, May 2008

Stochastically stable states in load balancing and congestion games.

- Dagstuhl Workshop on Computational Social Systems and the Internet, Germany, July 2007 (Invited by Éva Tardos)
- Carnegie Mellon University (CMU) Theory Lunch, Pittsburgh, PA, May 2007

AWARDS

2008 Taulbee Award for Excellence in Computer Science (given annually to one graduate student in the University of Pittsburgh CS Department for evidence of outstanding teaching skills, strong research interests, and a marked interest in pursuing an academic career)

Emmy Award (2001 National Sports Emmy Awards – The George Wensel Innovative Technical Achievement Award)

**PROFESSIONAL
ACTIVITIES**

Panel Member

Discussant for panel on *Expanding student enthusiasm for, and understanding of, introductory Computer Science* at CCSCNE (Consortium for Computing Sciences in Colleges, Northeast Region), Hartford, CT, April 2010

Reviewer

- Operations Research (Journal)
- The Institute for Operations Research and the Management Sciences Journal of Computing (INFORMS JOC).
- The ACM-SIAM Symposium on Discrete Algorithms (SODA).
- Theoretical Computer Science (Journal)
- Workshop for Approximation and Online Algorithms
- Journal of Scheduling

Member

- Association of Computing Machinery
- Association of Computing Machinery SIGACT (Special Interest Group on Algorithms and Computation Theory)