State of the Department

Henry Kautz
Department of Computer Science
University of Rochester

November 18, 2011
Undergraduate Education
Majors Up 36%

- Number of Majors
- 172 Enrollment (spring)
Courses Up 53%
New Courses

- Pervasive Computing
- Computational Models of Music
- Video Game Programming
- Social Implications of Computing
- Engineering Computing
Awards

- Astronaut Fellowship: Darcey Riley
- VA Tech Mathematics Competition: Xiaoqing Tang (3rd Place)
- SA President: Bradley Halpern
- Microsoft Golden Ticket: Adina Rubinoff and Joshua Pawlicki
The F.R.S.

- NSF & NDSEG Graduate Research Fellowships: Frank Ferraro

- CRA Finalists: Frank Ferraro; Robin Miller. Honorable mention: Sam White

- ACM Assets Student Research winner: Sam White

- Best Paper UIST: Robin Miller, Sam White
CS Games 1st Place

- W+J<3 Children: Sam Atlas ’12, Robin Miller ’11, Brad Orego ’11, Andrew Keenan-Richardson ’11, Josh Pawlicki ’12, Harry Ledley ’12, Scott Ames ’11, Julián Lunger ’14, Rintaro Kuroiwa ’12, and Dave Klein ’12.

- Team IFML: Emily Danchik ’13, Darcey Riley ’12, Chris Hill ’11, Dan Bartkowski ’12, Chris Miller ’14, Hap Willis ’14, Phillip Cohn-Cort ’14, and Mike Garber-Barron ’11
Class of 2011 Placements

- Grad School
  - Johns Hopkins
  - Columbia
  - University of Wisconsin
  - Washington University

- Industry
  - Microsoft
  - Google
  - AdMarketplace
  - Others!
Record Summer Internships

- Qualcomm
- Google (2)
- Nuance Communications (2)
- Microsoft Corp (2)
- Information Sciences Institute @USC
- Advanced Micro Devices, Inc,
- Intel Corp (2)
- IBM TJ Watson
- PARC
- SRI Int’l
- HP Labs
- Yahoo Research, Barcelona Spain
Graduate Placement

- Arvindh Shriraman,
  Assistant Professor,
  Simon Fraser University

- Thesis: Architectural Support for Overseeing Memory in Multiprocessors
Graduate Placement

- Philip Michalak - Digital Reasoning Systems
- Bin Wei - Netbase Solutions
- Shaojun Zhao - Amazon.com
- Carlos Gomez Gallo, Postdoc, University of Miami
- Matthew Post, Postdoc, Johns Hopkins University
Faculty & Research

Friday, November 18, 11
Muthu Venkitasubramaniam

- PhD Cornell 2010
- CI Fellow 2010-2011
- Theory of Computing
  - Cryptography
  - Concurrent Security
  - Zero-Knowledge Proofs
Jiebo Luo

- PhD Rochester 1995
- Fellow IEEE, SPIE, IAPR
- Research
  - Computer Vision
  - Datamining
  - Social Media
  - Biomedical Informatics
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<tr>
<th>University</th>
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<tr>
<td>STANFORD UNIVERSITY</td>
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<td>COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK</td>
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<tr>
<td>DARTMOUTH COLLEGE</td>
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Visiting Scientists

- Patrick Marlieris from University of Neuchatel, Switzerland / visiting Michael Scott
- Hector Martinez from University of Alicante, Spain / visiting James Allen
- Shen Li from National University of Defense Technology, China / visiting Chen Ding
(A Few) Research Highlights

- Michael Scott
  - Program Chair for ASPLOS 2012
  - Release 7 of Reconfigurable Software
    - Transactional Memory

- Jeff Bigham
  - Best Paper UIST (VizWiz)
  - World Press: BBC, New Scientist, Tech Review
Research Highlights

- Chen Ding
  - Fast multicore cache sharing analysis
  - Promoted to Full Professor!
- Henry Kautz
  - UR Partnership for Intel Pervasive Computing Science & Technology Center
External Funding

[Graph showing external funding in millions from 2005-06 to 2010-11. The graph shows a general downward trend with fluctuations.]
Recent Grants

- Submitted: 36
- Awarded: 12
- Declined: 9
- Pending: 15
- Success Rate: > 33%
- NSF CSE Success Rate (2010): 24%
Notable Awards

▪ James Allen / DARPA - $1.4 M
▪ Dan Gildea / DARPA - $707 K
▪ Henry Kautz / Intel - $700 K
▪ Michael Scott / NSF - $498 K
▪ Len Schubert / ONR - $410 K
▪ Lane & Edith Hemaspaandra / NSF - $373 K
Space

- Renovation of Vision & Robotics Lab
- Space Committee
  - Plan for student and faculty growth
- Other upgraded research space
Digital Media Studies Major

- Joint effort of Art & Art History, Music, and Computer Science
- CSC 131 becomes "Digital 3D Modeling and Animation"
- Opportunities for HCI, graphics, digital music, and more
New Courses Spring 2012

- Cryptography, Muthu V.
- Machine Vision, Jiebo Luo
- Appreciating & Understanding Network Phenomena, Joel Seiferas
- Advanced GPU Programming & Cloud Computing, Tolga Soyata (ECE)
Continued Faculty Growth

- Faculty search underway
- Will take us to 17.5 tenure-track positions

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