William Arms  
Title: Professor  
Office: 301 College Avenue  
Phone: 607/255-3046  
Email: wya@cs.cornell.edu

University Activities  
- Grants  
  - NSF. SGER: EScience in the All-Digital Library

Professional Activities  
- MIT Press Series editor for Digital Libraries and Electronic Publishing  
- Cornell Faculty Senate,  
- Information Science Curriculum Committee.  
- American Bar Association. Committee on the Status and Future of Federal e-Rulemaking  
- American Law Institute, Adviser, Principles of the Law of Software Contracts

Publications  

Other/Misc.  
Name: Kavita Bala
Title: Prof Assoc
Office: Upson Hall, Room 5142
Phone: 607/255-1383
Email: kb@cs.cornell.edu

University Activities
- Students Graduated
  - Ganesh Ramanarayanan (PhD: August 2008)
  - Milos Hasan (PhD: August 2009)
  - Adam Arbree (PhD: August 2009)
  - Edgar Velazquez Armendariz (Masters: August 2009)

Professional Activities
- SIGGRAPH 09, Interactive 3D Graphics (I3D) 09 http://graphics.cs.williams.edu/i3d09/
- High Performance Graphics 09,
- Eurographics Symposium on Rendering (EGSR) 09,
- Pacific Graphics (PG) 09,
- SIGGRAPH Asia 2008

Publications
  In ACM SIGGRAPH '09 (Journal: Transaction on Graphics) August 2009, New Orleans LA
  In ACM SIGGRAPH '08 (Journal: Transaction on Graphics) August 2008, Los Angeles CA
  Proceedings of IS&T 16th Color Imaging Conference (CIC) '08 Nov 2008

Lectures
- Perceptually-based scalable graphics. Yale University, Computer Science Department Colloquium, Sep 2008.
Name: Ken Birman
Title: Professor
Office: Upson Hall, Room 4119B
Phone: 607/255-9199
Email: ken@cs.cornell.edu

Professional Activities

- Ninth International Conference on Peer-to-Peer Systems (P2P 2009)
- International Conference on Distributed Computing Systems (ICDCS 2009)
- 5th IEEE International Conference on Autonomic Computing (ICAC 2008)
- 2nd International Conference on Distributed Event-Based Systems (DEBS 2008)
- International Conference on Distributed Computing Systems (ICDCS 2008)
- Symposium on Networked Systems Design and Implementation (NSDI 2008)

Publications


Lectures

- Distinguished Lecture, Cray Colloquium Lecture Series. University of Minnesota, Duluth, MN. October 2008

New Honors

- Appointed N. Rama Rao Professor of Computer Science, 2009
- IEEE Technical Committee on Distributed Processing Outstanding Achievement Award (2009)
Name: Claire Cardie
Title: Professor
Office: Upson Hall, Room 5161
Phone: 607/255-9206
Email: cardie@cs.cornell.edu

University Activities
- Charles and Barbara Weiss Director, Information Science
- Member, Information Science Curriculum Committee
- Member, Cornell Presidential Research Scholars Board
- Member, Provost's Advisory Group of Women in Science and Engineering (WISE)
- Member, College Scholar Advisory Board
- Member, Independent Major Advisory Board
- College Scholar Advisor

Professional Activities
- Councilor, Association for the Advancement of Artificial Intelligence (AAAI)
- Member, AAAI Conference Outreach Committee
- Board Member, Executive Committee of the Association for Computational Linguistics
- Editor (with John Wilkerson), Journal of Information Technology & Politics Special Volume: Text Annotation for Political Science Research
- Editorial Board Member, Machine Learning
- Editorial Board Member, Computational Linguistics
- Editorial Board Member, Journal of Information Technology & Politics
- Steering Committee Member, SIGNLL, Special Interest Group of the Association for Computational Linguistics for Natural Language Learning
- Executive Board Member, SIGDAT, Special Interest Group of the Association for Computational Linguistics for Linguistic Data and Corpus-based approaches to NLP
- Program Committee Member, Discourse Anaphora and Anaphor Resolution Colloquia (DAARC-2009)
- Program Committee Member, Joint Conference of the 47th Annual Meeting of the Association for Computational Linguistics and the 4th International Joint Conference on Natural Language Processing of the Asian Federation of Natural Language Processing (ACL-IJCNLP)
- Program Committee Member, Thirteenth Conference on Computational Natural Language Learning (CoNLL-2009)
- Program Committee Member, International Conference on Weblogs and Social Media (ICWSM-2009)
- Program Committee Member, NAACL HLT Student Research Workshop
• Program Committee Member, EACL Workshop on Language Technology and Resources for Cultural Heritage, Social Sciences, Humanities, and Education (LaTeCH-SHELT&R 2009)
• Reviewer, Human Language Technologies: The 2009 Annual Conference of the North American Chapter of the Association for Computational Linguistics (HLT-NAACL)
• Reviewer, National Science Foundation, CISE proposals
• Reviewer, Journal of Artificial Intelligence Research
• Panelist, NAACL HLT Student Research Workshop
• Organizing Committee Member, North American Computational Linguistics Olympiad (NACLO), Ithaca site, Cornell University

Publications

Lectures
• "Finding and Extracting Opinions on the Web". Evergreen College, October, 2008.
• ___ Center of Language Sciences (CLS), University of Rochester, November, 2008.

Other/Misc.
• Charles and Barbara Weiss Director of Information Science
Name: Alan Demers
Title: Principal Research Scientist
Office: Upson Hall, Room 4115A
Phone: (607)255-9207
Email: ademers@cs.cornell.edu

Publications

Name: Kit-Yee Daisy Fan
Title: Senior Lecturer
Office: Upson Hall, Room 5141
Phone: 607/255-1181
Email: dfan@cs.cornell.edu

University Activities
- CS/IS field session in CATALYST Academy (summer program)
- CS/IS field session in CURIE Academy (summer program)
- College of Engineering Admissions Committee
- Faculty Fellow--develop academic and social programs for campus residential communities
- Faculty panels and hosting events for Engineering admission and diversity initiatives

Professional Activities
- Treasurer, American Society for Engineering Education (ASEE) St. Lawrence Section
- Participant, Frontier in Education Conference (IEEE/ASEE), October 2008

Lectures
Name: Johannes Gehrke
Title: Prof Assoc
Office: Upson Hall, Room 4105B
Phone: 607/255-1045
Email: johannes@cs.cornell.edu

University Activities
- Chair, Graduate Student Admissions Committee. Cornell Department of Computer Science, Spring 2009.
- Member, Dean Search Committee. Cornell Faculty of Computer and Information Sciences, Spring 2009.
- Member, Visibility Committee. Cornell Department of Computer Science, Since Spring 2009

Professional Activities
- ACM Transactions on Knowledge Discovery from Data. Member of the Inaugural Editorial Board. Since 2005.
- 14th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2008). Las Vegas, NV, August 2008. Member of the Senior Program Committee.
- First Conference on the Foundations of Digital Games (FDG 2009), April 2009. Focus Area Chair in Databases.
- Thirty-Fourth International Conference on Very Large Data Bases (VLDB 2008). Auckland, New Zealand, August 2008. Program Committee member (Core Database Technology).

Publications

Lectures
• Scaling Games to Epic Proportions. Computer Science Distinguished Lecture Series, Department of Computer Science, University of Illinois at Urbana-Champaign. Urbana, IL, October 2008.
• Scaling Games to Epic Proportions. Colloquium at the University of Trondheim. Trondheim, Norway, December 2008.
• Large Data. Presentation at the CIS West Coast Advisory Board Meeting. San Francisco, CA, March 2009.
• What Can Database Systems Do For Computer Games? Colloquium at Harvard University, Department of Computer Science. Boston, MA, April 2009.
Name: **Donald P. Greenberg**
Title: Director, Program of Computer Graphics; Jacob Schurman Professor of Computer Graphics
Office: 580 Rhodes Hall
Phone: 607-255-7444
Email: dpg5@cornell.edu

University Activities
- Director, Program of Computer Graphics Graduate Fields
- Architecture Science, Computer Science, Computing & Information Science, Structural Engineering, Johnson Graduate School of Management Professional Activities
- Computing & Information Science Council Provost's Committee on Digital Arts & Culture Cornell University Center for Advanced Computing (CAC) Advisory Committee

Publications

Film:
- The Lord God Bird, DC Environmental Film Festival 2008, Directed by: George Butler, National Geographic Society, March 14, 2008.

Lectures
- Greenberg, D. P., The University of Trinidad and Tobago Centre for Information Communications Technology Advisory Roundtable, "Disruptive Computer Science May 2009 Technologies," University of Trinidad and Tobago, Trinidad. (March 17, 2009).
Greenberg, D. P., The University of Trinidad and Tobago Distinguished Lecture Series, "Computer Animation: From 2D to 3D, How We Got Here and Where We Are Going," The University of Trinidad and Tobago, Trinidad. (March 12, 2009).

Greenberg, D. P., i3D 2009 Conference Keynote Speaker (Interactive 3D Graphics and Games), "A Perspective on Perspective or How We Interpret 3D from 2D," ACM Siggraph, Boston, MA. (March 1, 2009).

Individual Research Activities:
- Greenberg, Donald P. (Principal), "Beyond Polygons & Pixels: New Paradigms for Real-Time, Physically-Based Rendering," Sponsored by National Science Foundation, Federal, (approx. $2.75M)
- Greenberg, Donald P. (Principal), "Interactive Global Illumination," Sponsored by Autodesk, - ($200 k)
- Greenberg, Donald P. (Principal), "Classrooms and Design Studios of the Future," Sponsored by Autodesk, -($150 k)
- Greenberg, Donald P. (Principal), "Material Databases," Sponsored by Autodesk, -($150k)
- Greenberg, Donald P. (Principal), Pratt, Kevin (Principal), Cupkova, Dana (Co-Principal), Torrance, Ken (Co-Principal), "Integrated Digital Design Environment for Sustainable Future," Sponsored by Cornell Center for a Sustainable Future's, $148,961.00.
- Greenberg, Donald P. (Principal), "Animation Research," Sponsored by Pixar, ($15k)
- Greenberg, Donald P. (Principal), Bala, Kavita (Principal), "Algorithms for Animation Production," Sponsored by DreamWorks, $35,000.00. (February 1, 2009-Present).
- Greenberg, Donald P. (Principal), "Collaboration for Cluster Computing (Equipment)," Sponsored by Intel-Microsoft-Dell, approximately, (Equipment contribution approx. $152,731)
- Greenberg, Donald P. (Principal), "Physically-Based Simulation of Avian Flight," Sponsored by Cornell Ornithology Lab, (continuing)
Name: David Gries  
Title: Professor  
Office: Olin Hall, Room 167  
Phone: 607/255-0393  
Email: gries@cs.cornell.edu  

University Activities  
- Chair, Committee on Student Assessment, for Cornell Middle States Accreditation  
- Chair, Independent Major Committee  
- Chair, Engineering College Educational Policy Committee  
- Member, Steering Committee for Cornell Middle States Accreditation  
- Member, Core Curriculum Governing Board (CCGB)  
- Member University Educational Policy Committee  
- Member, FABIT  
- Member, Bovay Steering Committee  
- Member, CIT Lecture Capture Committee  
- Member, University Committee on Integrity  
- Member, E-Cornell Board  
- Member, VideoNote Task Force  
- Advisor, Hindu Student Council  

Professional Activities  
- Chair, ACM Karl V. Karlstrom Outstanding Educator Award Committee.  
- Member, Committee to review Computer Science, University of North Carolina, Chapel Hill, NC, 14-15 Jan 2009.  
- 3. Member, Advisory Board, NSF Grant 0722274 (Owen Astrachan) on Problem Based Learning in Computer Science.  

Publications  
- Forward in Bennedsen, Jens, Michael Caspersen, Michael Kolling (Eds) Reflections on the Teaching of Programming.  
- LNCS 4821, Springer Verlag, 2008.  

Lectures  
- Teaching OO to beginners (Keynote Speaker), Educators' Symposium, OOPSLA 2008. Monday, 20 October 2008, Nashville, TN  
- A Principled Approach to Teaching Java. 1-day Workshop, Arizona State University, 9 Feb 2009.
Name: Joseph Halpern
Title: Professor
Office: Upson Hall, Room 4144
Phone: (607)255-9562
Email: halpern@cs.cornell.edu

University Activities
- Chair, CS department recruiting committee
- Member, Statistics recruiting committee

Professional Activities
- Program committee member for Twelfth Conference on Theoretical Aspects of Rationality and Knowledge (2009)
- Twenty-First International Joint Conference on AI (2009)
- Twenty-Fifth Annual Conference on Uncertainty in Artificial Intelligence (2009) (area chair)
- General chair, Twelfth Conference on Theoretical Aspects of Rationality and Knowledge (2009)
- Invited panelist, Workshop on Decision Theory and Its Discontents, Chicago (April 2009)
- Editorial Board member, Games and Economic Behavior
- Editorial Board member, Journal of Logic and Computation
- Administrator, Computing Research Repository (CoRR)

Publications


Lectures


• Eleventh International Conference on Principles of Knowledge Representation and Reasoning (KR 2008), Sydney, Australia (September, 2008) (invited talk).

• GAMES Summer School, Bertinoro, Italy (June, 2009) (invited talk)

• Causality, responsibility, and blame: a structural-model approach. Workshop on Theory and Practice of Provenance, San Francisco (February, 2009) (invited talk)

• Defaults and normality in causal structures, Eleventh International Conference on Principles of Knowledge Representation and Reasoning (KR 2008), Sydney, Australia (September, 2008)

• MICRAC Workshop on Causality in AI and Cognitive Psychology Toulouse, France (June 2009), (invited talk)

• From qualitative to quantitative proofs of security properties using first-order conditional logic, AAAI-08 (Proceedings of the Twenty-Third AAAI Conference on Artificial Intelligence), Chicago (July 2008)

• An almost-surely terminating polynomial protocol for asynchronous Byzantine agreement with optimal resilience, Twenty-Seventh Annual ACM Symposium on Principles of Distributed Computing, Toronto (July 2008)

• Constructive Decision Theory University of Queensland, Australia, Economics Dept. Colloquium
(Sept., 2008)

New Honors

- 2009 ACM/AAAI Newell Award
- Invited to join the Center for Analytic Economics, Cornell
Name: **John Hopcroft**  
Title: Professor  
Office: Upson Hall, Room 5144  
Phone: (607)255-1179  
Email: [jeh@cs.cornell.edu](mailto:jeh@cs.cornell.edu)

**University Activities**  
- University committee on program review  
- Local Advisory Council  
- Tau Beta Pi advisor

**Professional Activities**  
- **Member**  
  - Packard Foundation Science Advisory Board  
  - National Academies’ Vietnam Education Foundation Review Team  
  - World Bank Chile Millennium Science Initiative  
  - Technical Advisory Board, Microsoft Research Asia  
  - Advisory Board IIIT Delhi  
  - IEEE Simon Ramo Medal Committee  
  - Engineering College Advisory Board, Seattle University  
  - Chair, Talent Search Committee, KAUST  
  - Chair, Section 34, National Academy of Science  
- **Consultant**  
  - Microsoft  
  - KAUST  
- **Editorial Board Member**  
  - Algorithmica Journal of Computer and System Sciences  
  - Journal of Frontiers of Computer Science and Technology  
  - Program committee chair FAW 2009 Hefei, China

**Publications**  
- Robust Page Rank and Locally Computable Detection Features. **AIRWeb 2008** (with Vahab Mirrokni Banaadaki, et al)

**Lectures**  
- “Computer Science in the Information Age”, Changsha, June 19, 2008  
- “Computer Science in the Information Age”, University of Chile, Santiago, August 7, 2008
• “Computer Science in the Information Age”, Vietnam National University, Hanoi, August 19, 2008
• “Computer Science in the Information Age”, Hanoi University of Technology, Hanoi, August 19, 2008
• “Computer Science in the Information Age”, IIIT Hyderabad, Sept 29, 2008
• “Computer Science in the Future”, Microsoft Chennai, India Oct 1, 2008
• “Research Directions Supporting the Information Age,” Beijing Nobel Laureates Forum 2008, Beijing 2008
• “The Future of Computer Science”, Beihang University, June 16, 2009
• “The Future of Computer Science”, Institute of Software, Chinese Academy of Sciences, June 17, 2009
• “New Directions in Computer Science Research”, Hefei University of Technology, June 24, 2009

New Honors
• Honorary professorship, Beijing Institute of Technology, 2008.
• Designated by Merrill Scholar Aaron Sidford as the faculty member who made the most important contribution to his education at Cornell 2008.
• ACM Karl V. Karlstrom Outstanding Educator Award 2008.
• Fellow of Society for Industrial and Applied Mathematics 2009.
• Member of the National Academy of Sciences 2009.
• Honorary degree, Saint Petersburg State University of Information Technologies, Mechanics & Optics, Saint Petersburg, Russia 2009
Name: Dan Huttenlocher  
Title: Professor  
Office: Upson Hall, Room 4130  
Phone: 607/255-9188  
Email: dph2@cornell.edu

Professional Activities

Publications
- Landmark Classification in Large-Scale Image Collections, Proceedings of the IEEE International Conference on Computer Vision, 2009 (with D. Crandall and Y. Li).
- Feedback Effects between Similarity and Social Influence in Online Communities, Proceedings of Fourteenth ACM Conference on Knowledge Discovery and Data Mining (KDD) 2008 (with D. Crandall, D. Cosley, J. Kleinberg and S. Suri).

Lectures
- Mapping the World's Photos  
  School of Computer and Communications Science, EPFL Lausanne, June 2009  
  Computer Science Dept., Ecole Normale Superieure, Paris, June 2009  
  Computer Science Dept., ETH Zurich, May 2009
- Pictorial Structure Models and Sign Language Recognition  
  International Workshop on Computer Vision for Video, Barcelona, May 2009
• Social Influence and Similarity in Online Communities
  Computer Science Dept, Harvard, October 2008
• The Web as a Source of Research Data
  Conference Board NSF Workshop on Organizations and Innovation, July 2008
• Team Cornell and the DARPA Urban Challenge
  Princeton, September 2008
Name: **Doug James**  
Title: Prof Assoc  
Office:  
Phone: 607/255-9215  
Email: djames@cs.cornell.edu

**Professional Activities**

- Member, Advisory Board, ACM SIGGRAPH 2009  
- Member, Program Committee, ACM SIGGRAPH 2009  
- Member, Program Committee, ACM SIGGRAPH ASIA 2008  
- Chair, ACM SIGGRAPH/Eurographics Symposium on Computer Animation 2008  
- Chair, ACM Student Research Competition for ACM SIGGRAPH 2008  
- Associate Editor, *ACM Transactions on Graphics*  
- Member, Editorial Board, *Graphical Models*

**Publications**


**Lectures**


**New Honors**

- Fellow, Alfred P. Sloan Research (2006-2009)
• Recipient, NSF CAREER Award
Name: Thorsten Joachims
Title: Prof Assoc
Office: Upson Hall, Room 4153
Phone: (607)255-1372
Email: tj@cs.cornell.edu

University Activities
- Sabbatical
- Graduated Ph.D. Student: Thomas Finley

Professional Activities
- Action editor, Journal of Machine Learning Research
- Associate editor, Journal of Artificial Intelligence Research
- Co-Organizer, SIGIR08 Workshop "Beyond Binary Relevance"

Publications

Lectures
- Support Vector Machines for Structured Outputs.
  - Invited talk at MLG 2008.
  - Symposium of the Statistics SFB475
  - Universitaet Bonn
  - Erasmus University Rotterdam
- How does Clickthrough Data Reflect Reflect Retrieval Quality?
  - Yahoo! Research
  - Google
  - Dagstuhl Seminar on Interactive IR
- Search Engines that Learn
  - Fraunhofer Schlossgespraech
New Honors

- Fraunhofer-Bessel Award of the Humboldt Foundation
- ICML Best 10-Year Paper Award
- NSF Award IIS-0812091 “Information Genealogy”
Name: Jon Kleinberg  
Title: Professor  
Office: Upson Hall, Room 5134  
Phone:  
Email: kleinber@cs.cornell.edu

Publications

- "Go figure ...", Guardian, 23 February 2009.
- "The world's most photogenic sites, according to Flickr," Wired, 27 April 2009.


Lectures


• "Information Flow and Similarity in On-Line Social Networks," Microsoft Research, Silicon Valley, January 2009.


• "Computational Perspectives on Large-Scale Social Network Data," Johns Hopkins Computer Science Distinguished Lecture Series, October 2008.


New Honors
• ACM-Infosys Foundation Award in the Computing Sciences, 2009.

Other/Misc.
• American Academy of Arts and Sciences: elected 2007.
• Rolf Nevanlinna Prize, International Mathematical Union, 2006.
• National Academy of Sciences Award for Initiatives in Research, 2001.
• Office of Naval Research Young Investigator Award, 1999.
• David and Lucile Packard Foundation Fellowship, 1999.
• Kenneth A. Goldman '71 Excellence in Teaching Award, Cornell College of Engineering, 2008.
• Fiona Ip Li '78 and Donald Li '75 Excellence in Teaching Award, Cornell College of Engineering, 2000.
• Best research paper award, ACM SIGKDD Intl. Conf. on Knowledge Discovery and Data Mining, 2005.
• Best research paper award, ACM SIGKDD Intl. Conf. on Knowledge Discovery and Data Mining, 2003.
Name: Robert Kleinberg  
Title: Prof Asst  
Office: Upson Hall, Room 4138  
Phone: (607)255-9200  
Email: rdk2@cornell.edu

Professional Activities
- ACM-SIAM Symposium on Discrete Algorithms (SODA), 2009  
- International Colloquium on Automata, Languages, and Programming (ICALP), 2009.  
- International Joint Conference on Artificial Intelligence (IJCAI), 2009.  
- Workshop on Economics of Networks, Systems, and Computation (NetEcon), 2009.  
- Workshop on Advertising Auctions (AdAuctions), 2009.  
- Board of editors, "Theory of Computing"  
- Cornell Computer Science curriculum committee, faculty recruiting committee.

Publications
- "Multiplicative updates outperform generic no-regret learning in congestion games" (STOC 2009), with G. Piliouras and E. Tardos  
- "Online learning with global cost functions" (COLT 2009), with E. Even-Dar, S. Mannor, and Y. Mansour.  
- "The K‐armed dueling bandit problem" (COLT 2009), with Y. Yue, J. Broder, and T. Joachims.  
- "Selling ad campaigns: online algorithms with cancellations" (EC 2009), with M. Babaioff and J. D. Hartline.  
- "Load balancing without regret in the bulletin board model" (PODC 2009), with G. Piliouras and E. Tardos.  
- "Online bipartite perfect matching with augmentations" (INFOCOM 2009), with K. Chaudhuri, C. Daskalakis, and H. Lin.  
- "A multiplicative deformation of the Mobius function for the poset of partitions of a multiset", Contemporary Mathematics 479, 113-118. With P. Hersh.  

Lectures
- "Multi‐armed bandit problems in metric spaces"  
• "A learning-theoretic refinement of the price of anarchy"

New Honors
• AFOSR grant: "Distance Geometry of Complex Metric Spaces"
Name: **Christoph Koch**
Title: Prof Assoc
Office: Upson Hall, Room 4105A
Phone: (607)255-4117
Email: koch@cs.cornell.edu

Professional Activities
- PC Chair of WebDB 2008
- Associate Editor of ACM Transactions on Internet Technology.

Publications
- Mingsheng Hong, Mirek Riedewald, Christoph Koch, Johannes Gehrke, and Alan Demers. “Rule-Based Multi-Query Optimization”. In Proc. EDBT 2009, St. Petersburg, Russia.
- Christoph Koch and Dan Olteanu. “Conditioning Probabilistic Databases”. In Proceedings of the 34th International Conference on Very Large Data Bases (VLDB), Auckland, New Zealand, 2008.

Lectures
• “MayBMS: A Probabilistic Database Management System”. Presented at University of California at Irvine, April 24, 2009.
• “MayBMS: A Probabilistic Database Management System”. Presented at the University of California at San Diego, May 1, 2009.
Name: **Dexter Kozen**
Title: Professor
Office: Upson Hall, Room 5143
Phone: 607/255-9209
Email: kozen@cs.cornell.edu

Professional Activities
- Logic in Computer Science (LICS), 2007
- Int. Colloq. Automata, Languages, and Programming (ICALP), 2009
- Editorships
  - J. Relational Methods in Computer Science
  - Theory of Computing Systems
  - Logical Methods in Computer Science

Publications

Lectures
- 3/08 Workshop on Modal Fixpoint Logics, Amsterdam
- 4/08 9th Int. Workshop Coalgebraic Methods in Computer Science, Budapest
- 6/08 23rd Symp. Logic in Computer Science (LICS), Pittsburgh
- 9/08 British Logic Colloquium, Nottingham, UK
- 5/09 Open Lectures, Warsaw

New Honors
- Fellow, American Association for the Advancement of Science, 2008
Name: Lillian Lee
Title: Professor
Office: Upson Hall, Room 4152
Phone: 607-255-8119
Email: llee@cs.cornell.edu

University Activities
- Director of undergraduate studies, computer science (involves membership in the College of Engineering] Curriculum Governing Board (CCGB)), Spring 2009
  - Member, CCGB committee on humanities and social sciences electives
  - Member, CCGB committee on minors
  - Member, Engineering Co-op Faculty Advisory Committee
- Chair, ad hoc committee on the CS curriculum
- Member, CS 2110 committee
- Member, department visibility committee
- Member, Committee on Academic Freedom and Professional Status of the Faculty

Professional Activities
- Organizing-committee member, ACL Special Interest Group on Linguistic Data and Corpus-Based Approaches to NLP (SIGDAT)
- NAACL nominating committee
- Associate editor, Journal of Artificial Intelligence Research (JAIR)
- Member, editorial board, Machine Learning
- Program committee member: NAACL HLT 2009; IJCAI 09, WikiAI 09, NAACL-HLT workshop on unsupervised and minimally supervised learning of lexical semantics; ACL-IJCNLP 2009
- Journal referee: IEEE Transactions on Audio, Speech and Language Processing
- Co-organizer (with Claire Cardie and Jennifer Wofford), North American Computational Linguistics Olympiad, Ithaca site, 2009 (competition for high-school students)

Publications

Lectures
• A tempest: Or, On the flood of interest in sentiment analysis, opinion mining, and the computational treatment of subjective language
  o Invited talk at AAAI 2008
  o Invited talk at ICWSM 2009
  o Invited talk at New Directions in Text Analysis, held by the Institute for Quantitative Social Science, 2009
  o Invited talk at UT Austin

New Honors
• Kendall S. Carpenter Advising Award, 2009
• Faculty Fellow, Institute for the Social Sciences, Fall 2008
Name: Steve Marschner
Title: Associate Professor
Office: 5159 Upson Hall
Phone: 607-255-8367
Email: srm2@cs.cornell.edu

University Activities
- Gave research presentation to CIS advisory board meeting, March 2009.
- Served as Interim Director of Undergraduate studies for CS, Fall 2008.

Professional Activities
- Served as panelist for National Science Foundation.
- Served on the Committee of Visitors reviewing the CCF organization within NSF CISE.

Publications

Lectures
- “Rendering Materials with Complex 3D Structure”, Max-Planck Institute for Informatics, Saarbruecken, Germany, June 2008.
- “Modeling and simulating scattering in hair for the purposes of computer graphics,” invited presentation to the Spring Seminar of the New York Society of Cosmetic Chemists, April 2009.
Name: Andrew Myers
Title: Prof Assoc
Office: Upson Hall, Room 4133
Phone: (607)255-8597
Email: myers@cs.cornell.edu

Professional Activities
- Lead, IARPA STONESOUP study on software assurance
- Program Chair, 2009 IEEE Symposium on Security and Privacy (Oakland)
- Editorial board, Journal of Computer Security
- Editorial board, ACM Transactions on Information and System Security
- Program Committee, 2009 ACM Symposium on Operating Systems Principles (SOSP)
- Program Committee, 2009 IEEE Symposium on Computer Security Foundations (CSF)
- Program Committee, 2009 ACM SIGPLAN Workshop on Types in Language Design and Implementation (TLDI)

Publications
- ”Masked types for sound object initialization,” ACM Symposium on Principles of Programming Languages (POPL), January 2009. (with X. Qi)
- ”Sharing classes between families,” ACM Conference on Programming Language Design and Implementation (PLDI), June 2009. (with X. Qi)

Lectures

New Honors
- 2009 Most Influential POPL Paper Award (for POPL 1999).
- Alfred P. Sloan Research Fellowship (2002)
- Abraham T. C. Wong ’72 Excellence in Teaching Award (2002)

Software Releases
- **Civitas 0.7.1**: a secure remote voting system
  (http://www.cs.cornell.edu/projects/civitas)
- **Swift 0.95**: a framework for automatically partitioning secure web applications
  (http://www.cs.cornell.edu/jif/swift)
- **Jif 3.3**: Java + information flow
  (http://www.cs.cornell.edu/jif)
- **Polyglot 2.4**: an extensible compiler front end framework
  (http://www.cs.cornell.edu/Projects/polyglot)
- **J\mask 0.9**: masked types for sound object initialization
  (http://www.cs.cornell.edu/Projects/jmask)
Name: Rafael Pass
Title: Prof Asst
Office: Upson Hall, Room 5139
Phone: (607)255-5578
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University Activities
- Cornell Boom Faculty contact
- Cornell Ph.D Admission committee

Professional Activities
- 6th Theory of Cryptography Conference (TCC’09), 2009

Publications

Lectures
- AFOSR presentation, Concurrent Security, 2009
- MIT, Non-malleability Amplification, 2009
- Cornell, Game Theory with Costly Computation, 2009
- Weizmann, Game Theory with Costly Computation, 2009
- KTH, Game Theory with Costly Computation, 2009
- I3P presentation (at Cornell), Towards new definitions of concurrent security, 2008
- World Congress of Game Theory, Iterated Regret Minimization: A New Solution Concept, 2008
- Dagstuhl, Algorithmic Rationality: Game Theory with Costly Computation, 2008
Name: **Fred B. Schneider**  
Title: Samuel B. Eckert Professor of Computer Science  
Office: Upson Hall, Room 4115C  
Phone: 607/255-9221  
Email: fbs@cs.cornell.edu

**University Activities**
- Member, University Committee on Academic Programs and Policies (thru June 30, 2012)
- Member, CS Department New Building Committee.
- Member, CS Department Faculty Recruiting Committee.

**Professional Activities**
- Chief Scientist, NSF TRUST Science and Technology Center.
- Industrial Advisory: Fast Search and Transfer; Fortify Software; Lockheed Martin Corp; Microsoft Trustworthy Computing Academic Advisory Board (co-chair).
- Other Advisory Committees: PCAST Technical Advisory Group on Networking and Information Technology; Department of Commerce, Information Security and Privacy Advisory Board; Board of Directors, Computing Research Association; Defense Science Board; Computing Community Consortium Council.

**Publications**

**Lectures**


• TRUST Center Scientific Agenda. National Science Foundation Site Visit, Berkeley, CA. February 2009.


New Honors
• Appointed Samuel B. Eckert Professor of Computer Science, Feb. 1, 2009.
Name: Bart Selman  
Title: Professor  
Director of Graduate Studies  
Director of the Intelligent Information Systems Institute  
Office: Upson Hall, Room 4148  
Phone: (607)255-5643  
Email: selman@cs.cornell.edu  

University Activities  
- Director of Graduate Studies ('09)  
- Director of the Intelligent Information Systems Institute (IISI)  
- Member, Executive Board, Institute for Computational Sustainability  
- Member, Ph.D. Admissions committee ('08-'09)  
- Chair, Ph.D. Admissions committee ('07-'08)  
- Member, Cornell University Lectures Committee ('06-'09)  

Professional Activities  
- Chair Elect, Section Section on Information, Computing and Communication, American Assoc. for the Advancement of Science(AAAS, '09-'11).  
- Member, ACM Dissertation Awards Committee (2006-2010). Committee Chair ('09-'10).  
  Co-Chair, AAAI Presidential Panel concerning Future Directions in AI: Societal Impact and Responsibilities  
- Chair, Learning and Intelligent Optimization (LION 3), Trento,Italy, 2009.  
- Program committees AAAI-07, SAT-08, AAAI-08, UAI-09, and IJCAI-09.  

Publications  
- Integrating Systematic and Local Search Paradigms: A New Strategy for MaxSAT. Lukas Kroc, Ashish Sabharwal, Carla P. Gomes, and Bart Selman. 21st Int. Joint Conf. on Artificial Intelligence (IJCAI-09), Pasadena, CA, 2009.  
- Relaxed DPLL Search for MaxSAT. Lukas Kroc, Ashish Sabharwal, and Bart Selman  
  12th Int. Conf. on Theory and Appl. of Satisfiability Testing (SAT-09), Swansea, Wales, U.K., 2009.  
- Incomplete Algorithms for Satisfiability. Henry Kautz, Ashish Sabharwal, and Bart Selman  
- Model Counting. Carla Gomes, Ashish Sabharwal, and Bart Selman.  
- Message-Passing and Local Heuristics as Decimation Strategies for Satisfiability. Lukas Kroc, Ashish Sabharwal, and Bart Selman  
  24th Annual ACM Symposium on Applied Computing (SAC-09), 2009.  
- Computational science: A hard statistical view. (Invited News and Views article.)  

• Leveraging Belief Propagation, Backtrack Search, and Statistics for Model Counting. Lukas Kroc, Ashish Sabharwal, and Bart Selman. 5th Int. Conf. on the Integration of AI and OR Techniques (CPAIOR-08), Paris, France, 2008.

• Satisfiability Solvers. Carla Gomes, Henry Kautz, Ashish Sabharwal, and Bart Selman.


• From Sampling to Model Counting. Carla Gomes, Joerg Hoffmann, Ashish Sabharwal, and Bart Selman. 20th Int. Joint Conference on Artificial Intelligence (IJCAI-07), Hyderabad, India, 2007.


• Sampling and Soundness: Can We Have Both? Carla P. Gomes, Joerg Hoffmann, Ashish Sabharwal, Bart Selman. 6th International Semantic Web Conference (ISWC-07), Busan, Korea, 2007.

• Short XORs for Model Counting: From Theory to Practice. Carla P. Gomes, Joerg Hoffmann, Ashish Sabharwal, and Bart Selman. 10th Int. Conf. on Theory and Applications of Satisfiability Testing (SAT-07). Lisbon, Portugal, 2007.

Lectures


• "The Synthesis of Probabilistic and Logical Inference Methods", Colloquium, Helsinki University of Technology (TKK), Helsinki, Finland, Nov. 2008.


• "The Synthesis of Probabilistic and Logical Inference Methods", Colloquium, University of Texas, Austin, TX, Sept. 2008.


• "Combinatorial Problems (series of three lectures; Finding Solutions, Counting and Sampling Solutions, and The Next Level of Complexity)", 2nd Asian-Pacific School on Statistical Physics and
Interdisciplinary Applications, Collective Dynamics and Information Systems Program (KITPC-08), Kavli Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China, March 2008

- "Beyond Traditional SAT Reasoning: QBF, Model Counting, and Solution Sampling", (inv. tutorial with Ashish Sabharwal) 22nd Conference on Artificial Intelligence (AAAI-07), Tutorial Forum, Vancouver, BC, Canada, July 2007

Honors

- Elected to Chair, Section on Information, Computing and Communication, American Association for the Advancement of Science (AAAS, Chair Elect '09, Chair '10).
- Outstanding Paper Award, 21st Natl. Conf. on Artificial Intelligence (AAAI-06), 2006.
- Selected most influential Cornell Professor by Merrill Presidential Scholar (Cornell Outstanding Educator Award, 2001).
- Elected to the Executive Council of the American Association for Artificial Intelligence, the policy making body for AAAI (1999-2002).
- Best Paper Award, 13th Natl. Conf. on Artificial Intelligence (AAAI-96), 1996.
- Best Paper Award, 10th Natl. Conf. on Artificial Intelligence (AAAI-92), 1992.
Name: David Shmoys  
Title: Professor  
Office: Frank H T Rhodes Hall, Room 231  
Phone: (607)255-9146  
Email: shmoys@cs.cornell.edu  

University Activities  
- computed university final exam schedules  
- Department of Computer Science, Computational Biology recruiting committee  

Professional Activities  
- Vice-Chair, IEEE Technical Committee Mathematical Foundations of Computing  
- Served on 2008 APPROX program committee  
- Served on 2008 INFORMS Nicholson prize committee  
- Serving on 2009 INFORMS Nicholson prize committee  
- MPS, Council Member for Publications  
- SIGACT/ACM, Executive Committee Awards Coordinator  
- Communications of the ACM, coordinator for research contributions for theoretical computer science  
- SIAM J. on Discrete Math, Editorial Board  
- Mathematics of Operations Research, Editorial Board  

Publications  

Lectures  
Name: Eva Tardos
Title: Professor
Office: Upson Hall, Room 4130
Phone: 607/255-0984
Email: eva@cs.cornell.edu

University Activities

- Chair, Computer Science Dept

Professional Activities

- Editor, Journal of the ACM; Combinatorica; Theory of Computing
- Member, Advisory Board, Center for Discrete Mathematics and Computer Science (DIMACS) at Rutgers
- Member, Scientific Advisory Board, Max Planck Institute, Informatick, Saarbrücken, Germany.
- Member, Scientific Advisory Panel, Field’s Institute, Toronto, Canada.
- Member, SIGACT Executive Committee 2003-2009.

Publications


Lectures

- The price of anarchy and learning in congestion games, Building Bridges, August 2008.
• *Games in Networks: the price of anarchy, stability, and learning (a sequence of four talks)*, The Operations Research Seminar at Zinal, Switzerland, January 2009.
• *Learning outcomes in (congestion) games*, Bellairs Workshop on Algorithmic Game Theory, March 2009
• *Ad Auction Nash Equilibria with Conservative Bidders*, Andras Frank 60, Budapest June, 2009.
• *Quality of Learning Outcomes in (Congestion) Games*, Séminaire Parisien de théorie des jeux, Paris June 2009.
• *Quality of Learning Outcomes in (Congestion) Games*, ELSE Workshop on Search, Mechanism Design and the Internet, at University College London, June 2009.

New Honors
• Elected to the National Academy of Engineering
• Dantzig Prize (2006)
• Fellow, American Academy of Arts and Sciences
• Fellow, Association of Computing Machinery
• Fellow, INFORMS
• Fellow, SIAM
• Recipient, Guggenheim Fellowship
• Recipient, Packard Fellowship
• Recipient, Sloan Foundation Fellowship
• ACSU Faculty of the Year (2005)
• Recipient, F.I. Li ’78 and D. Li ’75 Excellence in Teaching Award
• Recipient, Fulkerson Prize (of AMS and MPS) (1988)
Name: Charlie Van Loan  
Title: Professor  
Office: Upson Hall, Room 5153  
Phone: (607)255-5418  
Email: cv@cs.cornell.edu

Professional Activities
- **NSF Workshop on Future Directions in Tensor-Based Computation and Modeling** Feb 20-21 (Organizer)

Publications

Lectures
- November 10  U Connecticut : Tensor Computations and Numerical Multilinear Algebra
- Feb 21: National Science Foundation:Tensor Networks and Large Scale Eigenvalue Computations
- April 22: Cornell Bring a Child to Work Day: Those Fabulous Hexagons

New Honors
- SIAM Fellow Merrill Presidential Award (Faculty mentor for Adam Elmachtoub)
Name: Robbert VanRenesse
Title: Principal Research Scientist
Office: Upson Hall, Room 4119A
Phone: 607/255-1021
Email: rvr@cs.cornell.edu

Professional Activities
- 23rd International Symposium on Distributed Computing (DISC 2009) (Program Committee member)
- 8th Symposium on Operating Systems Design and Implementation (OSDI 2008) (Program co-chair.)

Publications

Lectures
- "On Elections and Undecided States," European Research Council Symposium, April 28, 2009
Name: Hakim Weatherspoon
Title: Prof Asst
Office: Upson Hall, Room 4105C
Phone: (607)254-1257
Email: hweather@cs.cornell.edu

Professional Activities
• Co-PC Chair for ACM SIGOPS International Workshop on Large-Scale Distributed Systems and Middleware (LADIS) 2009
• ACM Symposium on Operating Systems Principles (SOSP), Scholarship Committee 2007
• USENIX Symposium on Operating Systems Design and Implementation (OSDI) 2008
• USENIX Conference on File and Storage Technologies (FAST) 2008
• USENIX Workshop on Hot Topics in System Dependability (HotDep) 2008
• IEEE International Symposium on Network Computing and Applications (NCA) 2008
• IEEE Workshop on Decentralized Self Management for Grids, P2P, and User Communities (SELMAN) 2008
• IEEE International Conference on Distributed Computing Systems (ICDCS) 2009
• International Workshop on Peer-to-Peer Systems (IPTPS) 2009
• Workshop on Architecting Dependable Systems (WADS) 2009
• International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS) 2009

Publications

Lectures

New Honors
• Black Engineer of the Year, Modern Day Technology Leader (2009)
Name: **Walker White**  
Title: Research Associate  
Office:  
Phone: (607)255-2969  
Email: wmwhite@cs.cornell.edu

**Professional Activities**
- Program Committee, FDG 2009
- Program Committee Co-Chair, 12th Annual Legacy of R.L. Moore Conference
- Faculty Advisor, Digital Gaming Alliance

**Publications**

**Lectures**
- Database Research in Computer Games. Tutorial Session at 2009 ACM SIGMOD Int. Conf. on Management of Data (SIGMOD 2009).
- Moderator, Researchers Roundtable, Austin Games Developer Conference (AGDC 2008)
Name: **Ramin Zabih**  
Title: Professor of Computer Science and Radiology  
Office: 4158 Upson Hall  
Phone: 607-255-8413  
Email: rdz@cs.cornell.edu

**Professional Activities**  
- Editor-in-chief, IEEE Transactions on Pattern Analysis and Machine Intelligence  
- Area chair, International Conference on Computer Vision, 2009

**Publications**  
- Special issue on Discrete Optimization in Computer Vision, *Computer Vision and Image Understanding*, October 2008

**Lectures**  
- Keynote speaker, British Machine Vision Conference, August 2008  
- Keynote speaker, IAPR Workshop on Graph-based Representations in Pattern Recognition, May 2009  
- MIT Vision Group, February 2009  
- Satellite Symposium, Human Brain Modeling Conference, June 2009