# CS@CU

# Columbia Computer Science
# Faculty Achievements

*Our faculty's extraordinary achievements over the academic year*

## Kathy McKeown to head New Data Sciences & Engineering Institute

*read more*

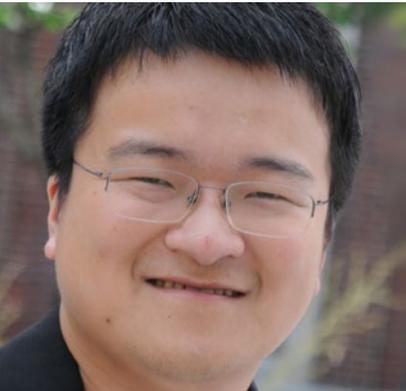## Henning Schulzrinne named FCC Chief Technology Officer

*read more*

## Collins, Hirschberg, & McKeown elected Founding Fellows of ACL

*read more*

## Steve Bellovin named FTC Chief Technologist

*read more*

## Xi Chen wins NSF Career Award and Sloan Fellowship

*read more: NSF*
*read more: Sloan*

## Junfeng Yang wins AFOSR Young Investigator Award and Sloan Fellowship

*read more: AFOSR*

## Luca Carloni wins 2012 IEEE CEDA Early Career Award

## Julia Hirschberg receives ISCA Medal for Scientific Achievement

*read more*

# CS@CU

# Columbia Computer Science
# Departmental Headlines 2012

*Faculty and graduates received numerous distinctions this academic year*



*Symposium celebrates*
**Joseph Traub's 80th Birthday**
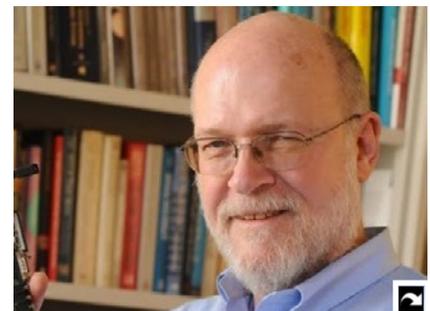


**Changxi Zheng** *joins*
*the department*



*Julia Hirschberg welcomed as*
**new Department Chair**



*Vishal Misra's*
**Silver Lining Systems**
**raises $2 million**



*Codecademy founders,*
*graduates* **Bubinski and Sims,**
**featured in NY Times**



**In Memoriam: Dave Waltz**
*(1943-2012)*



*Shih-Fu Chang named*
**Richard Dicker Professor of**
**Telecommunications**



**Department wins NSF IGERT:**
*From Data to Solutions*



*New joint Journalism +*
*CS Masters program offers*
**Brown Institute Fellowships**

# Columbia Computer Science
# Publication Awards

*Research excellence recognized in conferences & journals 2011–12*

| Authors | Paper Title | Award | Venue/Journal | |
|---|---|---|---|---|
| C. Vezyrtzis, Y. Tsividis, S. Nowick | *Designing pipelined delay lines with dynamically-adaptive granularity for low-energy applications* | **Best Paper** | *IEEE ICCD '12* | IEEE |
| T. Jebara, A. Choromanska | *Majorization for conditional random fields and latent likelihoods* | **Best Student Paper** | *NYAS Mach. Lear. Symp.* | The New York Academy of Sciences |
| T. Berg, P. Belhumeur | *Tom-vs-Pete classifiers and identity-preserving alignment for face verification* | **Everingham Prize** | *BMVC '12* | UNIVERSITY OF SURREY |
| E. Sitaridi, K. Ross | *Ameliorating memory contention of OLAP operators on GPU processors* | **Best Paper** | *DaMoN '12* | DAMON |
| K. Parton, N. Habash, K. McKeown | *Can automatic post-editing make MT more meaningful?* | **Best Paper** | *EAMT '12* | EAMT |
| J. Andrus, J. Nieh | *Teaching operating systems using Android* | **Best Paper** | *ACM SIGCSE '12* | acm |
| M. Madejski, M. Johnson, S. Bellovin | *A study of privacy setting errors in online social networks* | **Best Paper** | *PLSC '12* | PLSC |
| A. Bernstein | *Near linear time $(1 + \varepsilon)$-approximation for restricted shortest paths in undirected graphs* | **Best Student Paper** | *ACM-SIAM SODA '12* | siam |
| C. Rudin et al. | *Machine learning for the New York City power grid* | **Spotlight Paper** | *IEEE Trans. PAMI* | IEEE |
| S. Stolfo, B. Bowen, R. Devarajan | *Measuring the human factor of cyber security* | **Best Paper** | *IEEE HST '11* | IEEE |
| G. Portokalidis, A. Keromytis | *REASSURE: a self-contained mechanism for healing software using rescue points* | **Best Paper** | *IWSEC '11* | IWSEC2012 in Fukuoka |
| J. Andrus, C. Dall, A. V. Hof, O. Laadan, J. Nieh | *Cells: a virtual mobile smartphone architecture* | **Best Paper** | *ACM SOSP '11* | acm |
| N. Ristanovic, J. Le Boudec, A. Chaintreau, V. Erramilli | *Energy efficient offloading of 3G networks* | **Best Student Paper** | *IEEE MASS '11* | IEEE |
| S. Henderson, S. Feiner | *Augmented reality in the psychomotor phase of a procedural task* | **Best Student Paper** | *IEEE ISMAR '11* | ISMAR |
| K-H Kim | *DYSWIS, a collaborative network fault diagnosis system project* | **IDEA Award** | *Internet2 Meeting '11* | INTERNET2 |
| M. Polychronakis, A. Keromytis | *ROP payload detection using speculative code execution* | **Best Paper** | *IEEE MALWARE '11* | IEEE |
| R. Geambasu | *Regaining control over cloud and mobile data* | **W. Chan Dissertation** | *U. Washington* | UNIVERSITY of WASHINGTON |
| R. Geambasu, J. John, S. Gribble, T. Kohno, H. Levy | *Keypad: an auditing file system for theft-prone devices* | **Best Student Paper** | *Eurosys '11* | EuroSys |
| M. Gorlatova, P. Kinget, I. Kymissis, D. Rubenstein, X. Wang, G. Zussman | *Energy harvesting active networked tags (EnHANTs) for ubiquitous object networking* | **Outstanding Paper New Comm. Topic** | *IEEE Comm. Society* | IEEE COMMUNICATIONS SOCIETY |
| D. Harmon, E. Vouga, B. Smith, R. Tamstorf, E. Grinspun | *Asynchronous contact mechanics* | **Research Highlight** | *Comm. of the ACM* | acm |
| B. Roark, M. Saraclar, M. Collins | *Discriminative n-gram language modeling* | **Best Paper ('07–'11)** | *Comp. Speech & Lang. J.* | |