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Last Updated March 2020

EDUCATION

- 1985-Ph.D. Electrical Engineering and Computer Science
Massachusetts Institute of Technology, Boston, MA.
Supervisors: J. Saltzer (Chair), J. Meldman, M. Sirbu, G. Walker.
Thesis: Access to Inter-Organization Computer Networks.
- 1982-M.S. Electrical Engineering and Computer Science
Massachusetts Institute of Technology, Boston, MA.
Supervisors: J. Saltzer (Chair)
Thesis: Data Communications over Cable
- 1980-B.S. Electrical Engineering and Computer Science
University of California, Berkeley

PROFESSIONAL EXPERIENCE

- 2019 – Present Associate Dean for Impact, Cornell Tech
- 2018 – Present Amazon Scholar, Part Time, Amazon.com, Inc.
- 2016 – 2019 Associate Dean, Cornell Tech
- 2013 – Present Professor, Computer Science, Cornell Tech; and
Professor, Healthcare Policy and Research, Weill Cornell Medical College
Founder, Health Tech Hub, Jacobs Technion-Cornell Institute, Cornell Tech.
- 2011 – 2018 Co-Founder, Open mHealth, Non-profit startup, <http://openmhealth.org>
- 2000 – 2012 Professor, Computer Science Department, UCLA
- 2006 – 2012 Professor, Electrical Engineering, UCLA, Joint Appointment
- 2002 – 2012 Director, Center for Embedded Networked Sensing, an NSF Science and Technology Center,
Headquartered at UCLA
- 1998 – 2000 Professor, Computer Science Department, and Project Leader, USC Information Sciences Institute
- 1992 – 1998 Associate Professor, Computer Science Department, USC
- 1986 – 1992 Assistant Professor, Computer Science Department, USC

TEACHING EXPERIENCE

Cornell Tech (2013 – Present)

- INFO5555 Health Tech, Data, Systems - Annually 2014-2019
- Tech Studio: Fall 2017, Fall 2018
- CS5450 Networks and Distributed Computing with Vitaly Shmatikov - Spring 2017
- CS5454 Mobile and Ubiquitous Systems - Fall 2013, Fall 2014
- CS5190 Computer Networking - Spring 2013

UCLA (2001 – 2012)

- CS219 Participatory Sensing
- CS213 Distributed Embedded Systems
- CS199 Directed Undergraduate Research
- CS194 Honors Undergraduate Research Program
- CS118 Computer Networks (taught annually), BS and MS students
- S113 Intro to Distributed Embedded Systems

DOCTORAL STUDENTS

- Current PhD/Postdoctoral Students:
Eugene Bagdasaryan (CS, Cornell), Hongyi Wen (IS, Cornell), Emily Tseng (IS, Cornell), Andrea Cuadra (IS, Cornell); Michael Sobolev (PostDoc), Katrin Hansel (Postdoc)
- Completed PhD Students (1991-present, listed alphabetically):

Faisal Alquaddoomi, Lee Breslau, Nirupama Bulusu, Alberto Cerpa, Ron Cocchi, Jeremy Elson, Hossein Falaki, Deepak Ganesan, Lewis Girod, Benjamin Greenstein, Ahmed Helmy, Shai Herzog, Andy Hsieh, Bau-Yi Polly Huang, Josh Hyman, Chalermek Intanagonwiwat, Donnie Kim, Teresa Ko, Kanna Satish Kumar, Charley Ching-Gung Liu, Brent Longstaff, Martin Lukac, Danny Mitzel, Minyoung (Min) Mun, Fabian Okeke, Andrew Parker, Graham Phillips, Pavlin Radoslavov, Nithya Ramanathan, Anoop Reddy, Sasank Reddy, Reza Rejaie, Vids Samanta, Thomas Schoellhammer, Puneet Sharma, Thanos Stathopoulos, Gene Tsudik, Kannan Varadhan, Hanbiao Wang, Liming Wei, Ya Xu, Longqi Yang, Haobo Yu, Yan Yu, Daniel Zappala, Jerry Zhao

HONORS

- National Academy of Medicine, 2019
- MacArthur Fellow, John D. and Catherine T. MacArthur Foundation, 2018-2023
- UbiComp/ISWC 2018 10-Year Impact Award (Paper with the Most Impact from ISWC 2008).
- IEEE Internet Award, May 2017
- Robert V. Tishman Founder's Chair, 2016 – Present
- Doctor Honoris Causa, Uppsala University, Sweden 2011
- ACM Sigmobility Outstanding Contribution Award, 2009
- National Academy of Engineering, Elected Member, 2009
- Doctor Honoris Causa, Ecole Polytechnique Fédérale de Lausanne, Switzerland 2008
- Distinguished Alumnus Award in Computer Sciences & Engineering, UC Berkeley 2008
- Women in Technology International Hall of Fame Award, 2008
- MacKay Fellow, UC Berkeley, 2007 – 2008
- Campbell Lecturer, Southampton University, May 2007
- American Academy of Arts & Sciences, Elected Fellow 2007
- Anita Borg Institute's Women of Vision Award for Innovation, 2007
- First Association for Computing Machinery's Committee on Women in Computing (ACM-W) Athena Lecturer, 2006 – 2007
- Jon Postel Endowed Chair, 2005
- Institute of Electrical and Electronics Engineers (IEEE) Fellow Award, 2004
- American Association for the Advancement of Science (AAAS) Fellow Award, 2001
- Association for Computing Machinery (ACM) Fellow Award, 2000
- Okawa Foundation Award, 1997
- National Science Foundation – Presidential Young Investigator Award, 1987 – 1992
- Vinton Hayes Communication Fellowship, MIT 1981

PROFESSIONAL ACTIVITIES: EDITORIAL, ORGANIZING, and ADVISORY COMMITTEES

Conferences and Workshops

- Co-organizer, (AIME) International Conference on Artificial Intelligence in Medicine. August 26-29, 2020
- Co-organizer, IoT Round Table, Organization for Economic Cooperation and Development, Global Coalition on Aging. October 4-5, 2018
- Co-organizer, Machine Learning and Data Mining for Podcasts, as part of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining, London, UK. August 20, 2018
- Co-organizer, The Zucker Hillside Hospital, Northwell Health, Cornell Tech Collaboration Summit. New York, NY. July 13, 2018
- Co-organizer, Mobile Health Research Technologies Inaugural Meeting. New York, NY. July 10-11, 2018
- Co-organizer, Verily/Google Academic Research Workshop on Retrospective Data Learning/Takeout. Google-Mountain View. March 12, 2018
- General Co-chair, MobiSys 2017: 1st Workshop on Digital Biomarkers, held in conjunction with The 15th International Conference on Mobile Systems, Applications and Services. Niagara Falls, NY. June 19-23 2017
- Invited Participant, World Economic Forum, Annual Meeting. Davos, Switzerland. January 17-19, 2017
- Guest Co-Editor, IEEE Internet Computing Special Issue - Internet of You: Data Big and Small. 2015
- Technical Program Committee Member, (WPA-15) 2nd Physical Analytics Workshop, held in conjunction with Mobisys. Florence, Italy. 2015
- Scientific Program Committee Member, Digital Disease Detection Conference, held in conjunction with The

- Web Conference (WWW). Florence, Italy. 2015
- Judge, Qualcomm Tricorder XPRIZE. 2014
- Program Co-Chair, ACM Mobisys, Workshop on Physical Analytics, New Hampshire. June 16, 2014
- Organizing committee, Health DataPalooza. June 2014
- Co-Organizer, Social-Mobile-Cloud Meets Medicine. Technion University. Haifa, Israel. December 17, 2013
- Member, World Economic Forum, Network of Global Agenda Councils, Robotics and Smart Devices Council. 2012 – 2013
- Technical Program Committee Member, ACM Mobisys 2013, 11th International Conference on Mobile Systems, Applications, and Services
- Co-PI, Intel Science and Technology Center on Pervasive Computing. 2010 – 2012
- Steering Committee, Health Data Initiative (HDI) 2012
- Technical Program Committee Member, SocialUrb 2011, Workshop on Social Connections in the Urban Space
- Technical Program Committee Member, PhoneSense, 2nd International Workshop on Sensing Applications on Mobile Phones 2011 and 2012
- Technical Program Committee Member, MobiHeld 2011, 3rd ACM SOSP Workshop on Networking, Systems, and Applications on Mobile Handhelds
- Program Committee Member, 1st Annual Symposium on Computing for Development 2010
- Program Committee Member, MobiHeld 2010, 2nd ACM SIGCOMM Workshop on Networking, Systems, and Applications on Mobile Handhelds
- Program Committee Member, MobiSys 2010, 8th International Conference on Mobile Systems, Applications, and Services
- Program Committee Member, Ubicomp 2010, 12th International Conference on Ubiquitous Computing
- Technical Program Committee Member, ACM HotMobile 2010, 11th Workshop on Mobile Computing Systems and Applications
- Associate Editor, ACM Transactions on Sensor Networks, 2004 – 2010
- Program Committee Member, Engaging Data: 1st International Forum on the Application and Management of Personal Electronic Information 2009
- Program Committee Member, MobiSys 2009, 7th International Conference on Mobile Systems, Applications, and Services
- Technical Program Committee Member, Information Processing in Sensor Networks (IPSN) 2009
- Program Committee Member, MobiSys 2008, 6th International ACM Sigmobile Conference on Mobile Systems, Applications, and Services 2008
- Technical Program Committee Member, 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2007
- Technical Program Committee Member, ACM Special Interest Group on Data Communications (ACM SIGCOMM - Data Communication Festival) 2007
- Technical Program Committee Member, Fourth Workshop on Embedded Networked Sensors (EmNets) 2007
- Technical Program Committee Member, DCOSS 2007. 3rd IEEE International Conference on Distributed Computing in Sensor Systems
- Steering Committee, 6th International Conference on Information Processing in Sensor Networks (IPSN) 2007
- Program Committee Member, International Workshop on Ambient Intelligence, Media, and Sensing (AIMS) 2007
- Technical Program Committee Member, ACM Mobicom, Workshop on Challenged Networks (Sigcomm CHANTS) 2007
- Program Committee Member, ACM International Workshop on Algorithmic Aspects of Wireless Sensor Networks (ALGOSENSORS) 2006
- Technical Program Committee Member, SIGCOMM CHANTS 2006, ACM Special Interest Group on Data Communications Workshop on Challenged Networks
- Program Committee Member, 4th Workshop on Hot Topics in Networks, (HotNet-IV) 2005
- Program Committee Member, DCOSS 2005, International Conference on Distributed Computing in Sensor Systems
- Program Committee, SenSys 2004, 2nd ACM International Conference on Embedded Networked Sensor Systems

- Program Committee, ALGOSENSORS 2004, 1st ACM International Workshop on Algorithmic Aspects of Wireless Sensor Networks
- Program Committee, MobiSys 2004, 2nd ACM International Conference on Mobile Systems, Applications, and Services
- General Co-chair and Steering Committee Chair, SenSys 2003, ACM International Conference on Embedded Networked Sensor Systems
- Committee Member, Real Time Systems Symposium (RTSS) 2003
- Workshop Program Committee Member, ACM International Workshop on Wireless Sensor Networks and Applications (WSNA) 2003
- Member of program committee, 1st International Sensor Network Protocols and Applications (SNPA) Workshop 2002-2003
- Program Committee Member, ACM OSDI. December 2002
- Program Committee Member, ACM Hotnets. October 2002
- Program Committee Member, ACM International Workshop on Wireless Sensor Networks and Applications (WSNA). September 2002
- Program Committee Member, MobiCom 2002. ACM International Conference on Mobile Computing and Networking
- Technical Program Committee Member, MobiHoc 2000, IEEE Mobile Ad Hoc Networking Committee. Boston, MA. August 11, 2000
- Program Committee Member, ACM SIGCOMM. 1991-2000
- Program Committee Member, ACM Special Interest Group on Data Communication. 1991 – 1999
- Technical Program Co-Chair, ACM Special Interest Group on Data Communication, 1996
- Program Committee Member. INFOCOMM. IEEE International Conference on Computer Communications. 1990, 1991, 1993-1998
- Program Committee Member, IEEE GLOBECOM 1994. Global Telecommunications Conference
- Program Committee Member, ACM Conference on Computer and Communications Security 1993
- Program Committee Member, International Federation for Information Processing (IFIP) International Conference on Integrated Network Management, 1989-1993
- Program Committee and Tutorial Organizer, INET 92. Kobe, Japan. 1992
- Program Committee Member, International Federation for Information Processing/Institute of Electrical and Electronics Engineers (IFIP/IEEE) Distributed Systems: Operations and Management Workshop. 1991
- Program Committee Member, INFOCOM. IEEE International Conference on Computer Communications. 1990 – 1991
- Program Committee Member, IEEE Symposium on Security and Privacy. 1986 – 1989
- Program Committee Member, Telecommunications Policy Research Conference, 1987

Journal Editorial Committees

- Advisory Board Member, ACM Transactions on Computing for Healthcare (HEALTH), 2018 – Present
- Editorial Board Member, Digital Biomarkers Journal, Karger, March 2017 – Present
- IEEE Pervasive Computing Board, 2009 – 2011, Member
- Editorial Board, Communications of the Association of Computing Machinery (CACM), 2007 – 2009
- Editor, Eurasip Journal, Special Issue on Sensor Networks, 2002
- Associate Editor, IEEE Magazine on Pervasive Computing, 2001-2004
- Co-Editor, Communications of the Association of Computing Machinery (CACM) Special Issue, "Embedding the Internet," May 2000
- Editorial Board Member, IEEE/ACM Transactions on Networking. 1993 – 1998
- Guest Co-Editor, IEEE Journal on Selected Areas in Communications, Special Issue on Internetworking. 1993-1994
- Founding Editor, Journal of Internetworking Research and Experience (Wiley). 1989 – 1993

Government and Academic Research and Advisory Committees

- Steering Committee Member, Weill Cornell Medicine, Center for Virtual Care. 2020 – Present.
- Planning Committee Member, National Academies Workshop: Opportunities and Challenges for Using Digital

- Health Applications in Oncology. To be held July 2020.
- Internal Advisory Committee Member, The Roybal Center at Division of Geriatrics and Palliative Medicine at Weill Cornell Medical Center. 2018
 - Advisory Committee, National Science Foundation, Computer and Information Science and Engineering (CISE). December 2015 – 2018
 - Invited Participant, NSF Smart and Connected Health Visioning Meeting. March 20th, 2017
 - Study Chair for the National Research Council, Computer Science and Telecommunications Board, Computing Research for Sustainability. 2011 – 2012.
 - Member of Institute of Medicine's Planning Committee, Health Data Initiative Forum 2012
 - Judge, Go Viral to Improve Health: NAE-IOM Health Data Collegiate Challenge. 2012
 - Scientific Advisory Board Member and Chair, Center for Technology and Behavioral Health, Expert Team Working Group on Emerging Technologies. 2011 – 2016
 - Judge, AcademyHealth, Relevant Evidence to Advance Care and Health (REACH) Challenge – Enabling Access to Relevant, Timely, and Useful Information to Improve Health and Health Care. 2011
 - Member, National Academy and the United States Institute of Peace Roundtable on Technology, Science and Peacebuilding. 2011 – 2012
 - Working Group Member, The President's Council of Advisors on Science and Technology (PCAST) and the President's Innovation and Technology Advisory Committee (PITAC). To review the Networking and Information Technology Research and Development (NITRD) Program. 2010 – 2012
 - Board of Trustees Member, International Computer Science Institute (ICSI). 2009 – 2012
 - Advisory Board Member, Long Term Ecological Research (LTR). 2009 – 2010
 - Advisory Committee Member. National Academy of Engineering President's Grand Challenges. 2009 – 2011
 - Committee Member, Alfred P. Sloan Research Fellowships in Computer Science Program. 2008 – 2011
 - Committee Member, ACM Athena Lecturer Committee. 2007 – 2011
 - Dan David Prize Review Committee Member. For the chosen field of "Computers and Telecommunications" within the Future Time Dimension. 2010
 - Committee Member, Computer Science and Telecommunications Board (CSTB) on Engaging the Computer Science Research Community in Healthcare Informatics. 2007-2010
 - Advisory Board Member, Cork Institute of Technology NEMBES: Networked Embedded Systems Research Program. 2008 - 2010
 - Committee Member, Computer History Museum Fellows Selection Committee. 2008 – 2009
 - Professor's Chair in Computer Science Search Committee Member, Faculty of Science and Technology, Uppsala University. 2008
 - Elected Member of AAAS Electorate Nominating Committee of the Section on Information, Computing and Communication, 2007 – 2010
 - External Advisory Board Member, Science and Technology Center for Coastal Margin Observation & Prediction (STC CMOP). 2007 – 2009
 - Steering Committee Member, UCSB, National Consortium on Remote Sensing in Transportation (NCRST) UCSB Department of Transportation (DOT Project). 2007 – 2009
 - Advisory Board Member, World Community Grid Advisory Board. 2007 – 2009
 - ACM Gender Diversity Committee Member, University of Southampton. 2007 – 2008
 - Initial Nominating Committee Member for Computing Community Consortium (CCC). November 2006 – April 2007
 - Committee Member, IEEE Alexander Graham Bell. 2006 – 2007
 - Visiting Committee Member, MIT Dept. of Civil and Environmental Engineering. 2004 – 2008
 - Member, The National Academies Computer Science and Telecommunications Board (CSTB). 2007 – 2010
 - Senior Management Team, National Ecological Observatory Network (NEON). 2003–2008
 - Network Design Committee Chair, National Ecological Observatory Network (NEON): Sensor and Sensor Networks. 2003–2007
 - Scientific Advisory Board Member, UCLA, Institute for Pure and Applied Mathematics (IPAM). 2003–2007
 - External Advisory Board Member, Center for Environmental Analysis – Center of Research Excellence in Science and Technology (CEA-CREST). 2003
 - Advisory Board Member, California Institute for Telecommunications and Information Technology (CAL-IT2).

2002–2011

- Advisory Committee Member, NSF Environmental Research and Education (ERE) 2002–2006
- Advisory Committee Member, NSF Computer and Information Science and Engineering (CISE). 2002–2006
- National Research Council: Computer Science & Telecommunications Board Member, 1999–2000; Editor and Chair, “Embedded Everywhere Report.” 2001
- Chair, ISAT Study on Sensor Networks. 1997–1998
- Scalable Systems Study Group Leader, Advanced Research Project Agency. 1996–1997
- National Research Internet Committee Member, Interdomain Multicast Routing (IDMR) Working Group, 1995–2000
- Advisory Group Member, Advanced Research Project Agency, Information Science and Technology (ISAT) Advisory Group. 1995–1998
- National Research Council, High Performance and Computing and Communications (HPCC) Committee, Computer Science and Telecommunications Board Member. 1994
- National Research Council, Computer Science and Telecommunications Board, Committee to study Changing Nature of Telecommunications Industry Member. January–December 1993
- National Research Internet Committee Co-chair, Source Demand Routing Working Group. 1993–1996,
- National Research Council, Computer Science and Telecommunications Board, Committee to Study Academic Careers for Experimental Computer Scientists Member. March 1992–July 1993
- Elected Representative and Member-at-Large, AAAS Section T on Information Computing and Communication, 1990–1991
- National Research Internet Committee Member, End-to-End Research Group, 1990–1999
- Advanced Information Technology and Research Advisory Panel Member, Office of Technology Assessment. 1989–1990
- National Research Internet Committee Member, Internet Research Steering Group. 1989–1993
- National Research Internet Committee Chairperson, Autonomous Networks Research Group. 1987–1993
- National Science Foundation, Experimental Research in Electronic Submission (EXPRES) Advisory Committee Member. 1987–1988

Commercial and Non-Profit Venture Advising and Activities

- Scholar, Amazon, Part-time, 2019–Present
- Advisor, Nanit, <http://www.nanit.com/>, January 2016–2018
- Advisor, MyndYou, <https://www.f6s.com/myndyou>, January 2016–2018
- Advisor, Health Rhythms, <https://healthrhythms.com/>, August 2015–2018
- Advisor, City Health Works, www.cityhealthworks.com, January 2015–2017
- Advisor, Future Perfect Ventures GP LLC, June 2014–2018
- Co-founder and Advisory Board Chair, Open mHealth, June 2011–2019
- Mentor, Blueprint Health, 2015–2017
- Mentor, NYC BigApps, April–July 2014
- Advisory Board Member, Nexleaf Analytics, <http://nexleaf.org/>, 2011–2012
- Member of Technical Advisory Board, Kollect, 2011–2013
- Member of Technical Advisory Board, TTI/ Vanguard Inc., October 2007–2011
- Member of Technical Advisory Board, Sensicast Inc., 2003–2005
- Consulting Professor, Intel Corporation, 2001–2003
- Member of Technical Advisory Board, VitalSigns, Inc., 1998–2000
- Member of Technical Advisory Board, Fast Forward Networks Inc., 1998–2000
- Board of Directors, Precept Software Inc., 1995–1998
- Consulting Scientist, CISCO Systems Inc., 1993–1998

PUBLICATIONS

Conference and Workshop Publications

1. BAGDASARYAN, E., VEIT, A., HUA, Y., ESTRIN, D., AND SHMATIKOV, V., “How to backdoor federated learning,” *to appear in AISTATS 2020*

2. BAGDASARYAN, E., BERLSTEIN, G., WATERMAN, J., BIRRELL, E., FOSTER, N., SCHNEIDER, F.B. AND ESTRIN, D., "Ancile: Enhancing Privacy for Ubiquitous Computing with Use-Based Privacy," *in proceedings of the 18th ACM Workshop on Privacy in the Electronic Society*, 2019, pp. 111-124
3. WEN, H., YANG, L. AND ESTRIN, D., "Leveraging Post-click Feedback for Content Recommendations," *in proceedings of the 13th ACM Conference on Recommender Systems*, 2019. pp. 278-286
4. CHAWLA, M., SINGH, K., YANG, L., ESTRIN, D., "RecBoard: A Web-based Platform for Recommendation System Research and Development," *In proceedings of The Web Conference (WWW)*, 2019
5. YANG, L., SOBOLEV, M., WANG, Y., CHEN, J., DUNNE, D., TSANGOURI, C., DELL, N., NAAMAN, M., ESTRIN, D., "How Intention Informed Recommendations Modulate Choices: A Field Study of Spoken Word Content," *in proceedings of The Web Conference (WWW)*, 2019
6. YANG, L., WANG, Y., DUNNE, D., SOBOLEV, M., NAAMAN, M., & ESTRIN, D., "More Than Just Words: Modeling Non-Textual Characteristics of Podcasts," *in proceedings of the 12th ACM International Conference on Web Search and Data Mining*, 2019. pp. 276-284
7. YANG, L., CUI, Y., XUAN, Y., WANG, C., BELONGIE, S., ESTRIN, D., "Unbiased Offline Recommender Evaluation for Missing-Not-At-Random Implicit Feedback," *in proceedings of the 12th ACM Conference on Recommender Systems (Recsys)*, 2018
8. WEN, H., YANG, L., SOBOLEV, M., ESTRIN, D., "Exploring Recommendations Under User-Controlled Data Filtering." *in proceedings of the 12th ACM Conference on Recommender Systems (Recsys)*, 2018
9. YANG, L., SOBOLEV, M., TSANGOURI, C., ESTRIN, D., "Understanding User Interactions with Podcast Recommendations Delivered Via Voice," *in proceedings of the 12th ACM Conference on Recommender Systems (Recsys)*, 2018
10. HSIEH, C.K., ALQUADDOOMI, F., OKEKE, F., POLLAK, JP, GUNASEKARA, L., ESTRIN, D., "Small Data: Applications and Architecture," *in proceedings of the 4th International Conference on Big Data, Small Data, Linked Data and Open Data*, 2018
11. OKEKE, F., SOBOLEV, M., ESTRIN, D., "Towards A Framework for Mobile Behavior Change Research," *in proceedings of Technology, Mind, and Society: APAScience*, 2018
12. ALQUADDOOMI, F., ESTRIN, D., "Ranking Subreddits by Classifier Indistinguishability in the Reddit Corpus," *in proceedings of the 10th International Conference on Information, Process, and Knowledge Management*, 2018
13. YANG, L., BAGDASARYAN, E., GRUENSTEIN, J., HSIEH, C., ESTRIN, D., "OpenRec: A Modular Framework for Extensible Recommendation Algorithms.," *in proceedings of the 11th ACM International Conference on Web Search and Data Mining (WSDM)*, 2018
14. YANG, L., FANG, C., JIN, H., HOFFMAN, M.D., ESTRIN, D., "Personalizing Software and Web Services by Integrating Unstructured Application Usage Traces," *in proceedings of the Web Conference (WWW)*, 2017
15. HSIEH, C.H., YANG, L., CUI, Y., LIN, T.Y., BELONGIE, S., ESTRIN, D., "Collaborative Metric Learning," *in proceedings in the Web Conference (WWW)*, 2017
16. KIZER, J., SAHUGUET, A., LAKIN, N., CARROLL, M., POLLAK, JP AND ESTRIN, D. 2016. Internet Scale Research Studies using SDL-RX. Oral Presentation at the Data For Good Exchange, September 25, 2016. Available at https://scholar.google.com/scholar?hl=en&as_sdt=0%2C33&q=+Internet+Scale+Research+Studies+using+SDL-RX&btnG=
17. YANG, L., FREED, D., WU, A., WU, J., POLLAK, JP. AND ESTRIN, D., "Your Activities of Daily Living (YADL): An Image-based Survey Technique for Patients with Arthritis," *in proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare*, 2016
18. HSIEH, C.K., YANG, L., WEI, H., NAAMAN, M. AND ESTRIN, D., "Immersive Recommendation: News and Event Recommendations Using Personal Digital Traces," *in proceedings of The Web Conference (WWW)*, 2016
19. YANG, L., HSIEH, C. AND ESTRIN, D., "Beyond Classification: Latent User Interests Profiling from Visual Contents Analysis," *in proceedings of IEEE International Conference on Data Mining Workshop (ICDMW)*, 2015
20. YANG, L., CUI, Y., ZHANG, F., POLLAK, JP., BELONGIE, S. AND ESTRIN, D., "PlateClick: Bootstrapping Food Preferences Through an Adaptive Visual Interface," *in proceedings of the 24th ACM International Conference on Information and Knowledge Management (CIKM)*, 2015

21. SAY, P.R., STEIN, D., ANCKER J.S., HSIEH, A., POLLAK, JP., AND ESTRIN, D., "Smartphone Data in Rheumatoid Arthritis - What Do Rheumatologists Want?," *in proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, 2015
22. BAUM, A., CARROLL, M., ESTRIN, D., GUNASEKARA, L. AND POLLAK, JP. "Pushcart: Supporting and Scaling Nutritionist-Client Relationships," *in Proceedings of CSCW 2015: Workshop on Moving Beyond e-Health and the Quantified Self*, 2015
23. HSIEH, C.K., TANGMURARUNKIT, H., ALQUADDOOMI, F., JENKINS, J., KANG, J., KETCHAM, C., LONGSTAFF, B., SELSKY, J., SWENDEMAN, D., ESTRIN, D. AND RAMANATHAN, N., "Lifestreams: A Modular Sense-making Toolset for Identifying Important Patterns from Everyday Life," *in Proceedings of the 11th ACM Conference on Embedded Networked Sensor Systems (SenSys)*, 2013
24. HSIEH, C.K., FALAKI, H., RAMANTHAN, N., TANGMUNARUNKIT, H. AND ESTRIN, D., "HotMobile 2012 Poster: Performance Evaluation of Android IPC for Continuous Sensing Applications," *in proceedings of the ACM SIGMOBILE Mobile Computing and Communications Review*, 2013
25. TANGMUNARUNKIT, H., RAMANATHAN, N., FALAKI, H., JENKINS, J., KETCHAM, C., LONGSTAFF, B., MONIBI, M., OOMS, J., PARAMESWARAN, K., SELSKY, J. AND ESTRIN, D., "Measures and Real-Time Feedback of Diet, Activity, and Stress Using GPS and Accelerometer Enabled Smartphone," *in Medicine 2.0*, 2012
26. RAMANATHAN, N., ALQUADDOOMI, F., FALAKI, H., GEORGE, D., HSIEH, C.K., JENKINS, J., KETCHAM, C., LONGSTAFF, B., OOMS, J., SELSKY, J., TANGMUNARUNKIT, H. AND ESTRIN, D., "Ohmage: An open Mobile System for Activity and Experience Sampling," *in proceedings of the 6th International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth) and Workshops*, 2012
27. KIM, D., HAN, K. AND ESTRIN, D., "Employing User Feedback for Semantic Location Services," *in proceedings of the 13th International Conference on Ubiquitous Computing (Ubicomp)*, 2011
28. FALAKI, H., MAHAJAN, R. AND ESTRIN, D., "SystemSens: A Tool for Monitoring Usage in Smartphone Research Deployments," *in proceedings of the 6th ACM International Workshop on Mobility in the Evolving Architecture (ACMMobiArch)*, 2011
29. KYUNGSIK, H., GRAHAM, E., VASSALLO, D. AND ESTRIN, D., "Enhancing Motivation in a Mobile Participatory Sensing Project through Gaming" *in proceedings of IEEE International Conference on Social Computing*, 2011
30. FALAKI, H., LYMBEROPOULOS, D., MAHAJAN, R., KANDULA, S. AND ESTRIN, D., "A First Look at Traffic on Smartphones," *in proceedings of the 10th ACM SIGCOMM conference on Internet Measurement*, 2010
31. MUN, M., HAO, S., MISHRA, N., SHILTON, K., BURKE, J., ESTRIN, D., HANSEN, M. AND GOVINDAN, R., "Personal Data Vaults: A Locus of Control for Personal Data Streams," *in proceedings of the 6th International Conference on Emerging Networking Experiments and Technologies (CoNEXT)*, 2010
32. KIM, D., KIM, Y., ESTRIN, D. AND SRIVASTAVA, M., "SensLoc: Sensing Everyday Places and Paths Using Less Energy," *in proceedings of the 8th ACM Conference on Embedded Networked Sensor Systems (SenSys)*, 2010
33. HICKS, J., RAMANATHAN, N., KIM, D., MONIBI, M., SELSKY, J., HANSEN, M. AND ESTRIN, D., "AndWellness: An Open Mobile System for Activity and Experience Sampling," *in Wireless Health*, 2010
34. REDDY, S., ESTRIN, D., HANSEN, M. AND SRIVASTAVA, M. "Examining Micro-Payments for Participatory Sensing Data Collections," *in proceedings of the 12th ACM International Conference on Ubiquitous Computing (Ubicomp)*, 2010
35. KO, T., SOATTO, S. ANDESTRIN, D., "Warping Background Subtraction," *in proceedings of the 23rd IEEE Conference on Computer Vision Pattern Recognition (CVPR)*, 2010
36. FALAKI, H., MAHAJAN, R., KANDULA, S., LYMBEROPOULOS, D., GOVINDAN, R. AND ESTRIN, D., "Diversity in Smartphone Usage," *in proceedings of the 8th International Conference on Mobile Systems, Application, and Services (MobiSys)*, 2010
37. REDDY, S., ESTRIN, D. AND SRIVASTAVA, M., "Recruitment Framework for Participatory Sensing Data Collections," *in proceedings of the 8th International Conference on Pervasive Computing*, 2010
38. REDDY, S., SHILTON, K., DENISOV, G., CENIZAL, C., ESTRIN, D. AND SRIVASTAVA, M., "Biketastic: Sensing and Mapping for Better Biking," *in proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, 2010
39. LONGSTAFF, B., REDDY, S. AND ESTRIN, D., "Improving Activity Classification for Health Applications on Mobile Devices using Active and Semi-Supervised Learning," *in the proceedings of the 4th International Conference on Pervasive Computing Technologies for Healthcare*, 2010

40. RAMANATHAN, N., SCHOELHAMMER, T., KOHLER, E., WHITEHOUSE, K., HARMON, T. AND ESTRIN, "D. Suelo: Human-assisted Sensing for Exploratory Soil Monitoring Studies," *in proceedings of the 7th ACM Conference on Embedded Networked Sensor Systems (SenSys)*, 2009
41. KIM, D.H., HIGHTOWER, J., GOVINDAN, R. AND ESTRIN, D., "Discovering Semantically Meaningful Places from Pervasive RF-beacons," *in proceedings of the 11th International Conference on Ubiquitous Computing (UbiComp)*, 2009
42. SHILTON, K., BURKE, J., ESTRIN, D., GOVINDAN, R. AND KANG, J., "Designing the Personal Data Stream: Enabling Participatory Privacy in Mobile Personal Sensing," *in proceedings of the 37th Research Conference on Communication, Information and Internet Policy (TPRC)*, 2009
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