

## NIMA NIKZAD, PHD

Scripps Translational Science Institute

3344 North Torrey Pines Court Suite 300, La Jolla, CA 92037 | 858-554-5766 | nnikzad@scripps.edu

### PROFESSIONAL PREPARATION

University of California, Los Angeles	Computer Science	B.S.	2009
University of California, San Diego	Computer Science	M.S.	2012
University of California, San Diego	Computer Science	Ph.D.	2015

*Advisor:* William G. Griswold

*Dissertation:* Annotated Programming for Energy-Efficiency in Mobile Applications

### Appointments

<i>Scripps Translational Science Institute</i>	Fellow of Digital Medicine	August 2015
<i>University of California, San Diego</i>	Graduate Research Assistant	2009 – 2015

### SERVICE AND SYNERGISTIC ACTIVITIES

- Board member, UCLA CS Department Undergraduate Program Advisory Board, 2006 - Present
- Graduate Students Mentored: Kavita Bhagavatula (M.S. 2014), Yilun Zheng (M.S. 2013), Han Sun (M.S. 2013), Cristhian Rendon Castro (M.S. 2012)
- Graduate Mentor in the Jacobs Undergraduate Mentoring Program, 2012 - 2013
- Program committee member, 4<sup>th</sup> International Workshop on Green and Sustainable Software, 2015
- President, ACM Student Chapter at UCLA, 2006 – 2009

### HONORS AND AWARDS

- Viterbi Fellow of Digital Medicine, *Scripps Translational Science Institute*, 2015
- Best Paper Award at *Middleware 2015*
- Best Paper Award at *Wireless Health 2012*

### PUBLICATIONS

#### *Conference Proceedings*

- N. Nikzad, M. Radi, O. Chipara, and W.G. Griswold, “Managing the energy-delay tradeoff in mobile applications with Tempus”, ACM/IFIP/USENIX Middleware (MIDDLEWARE 2015), 2015. ***Best Paper Award.***
- S.J. Olivas, M. Šorel, A. Arianpour, I. Stamenov, N. Nikzad, G.M. Schuster, N. Motamedi, W.M. Mellette, R.A. Stack, A. Johnson, R. Morrison, I.P. Agurok, and J.E. Ford, “Digital image processing for wide-angle highly spatially variant imagers”, Proc. SPIE 9193, Novel Optical Systems Design and Optimization XVII, 91930B, 2014. DOI= <http://dx.doi.org/10.1117/12.2062322>
- S.J. Olivas, N. Nikzad, I. Stamenov, A. Arianpour, G.M. Schuster, N. Motamedi, W.M. Mellette, R.A. Stack, A. Johnson, R. Morrison, I.P. Agurok, and J.E. Ford, “Fiber bundle image relay for monocentric lenses”, Computational Optical Sensing and Imaging, OSA Technical Digest, paper CTh1C.5, 2014. DOI= <http://dx.doi.org/10.1364/COSI.2014.CTh1C.5>
- N. Nikzad, O. Chipara, and W.G. Griswold, “APE: an annotation language and middleware for energy-efficient mobile application development”, International Conference on Software Engineering (ICSE 2014), pp. 515-526, 2014. DOI=<http://dx.doi.org/10.1145/2568225.2568288>.

- N. Nikzad, N. Verma, C. Ziftci, E. Bales, N. Quick, P. Zappi, K. Patrick, S. Dasgupta, I. Krueger, T.S. Rosing, and W.G. Griswold, “CitiSense: improving geospatial environmental assessment of air quality using a wireless personal exposure monitoring system”, Proceedings of the conference on Wireless Health, 2012. DOI=<http://dx.doi.org/10.1145/2448096.2448107>. **Best Paper Award**.
- N. Nikzad, J. Yang, P. Zappi, T.S. Rosing, and D. Krishnaswamy, “Model-driven adaptive sensing for environmental healthcare feedback systems”, 2012 IEEE Conference on Communications (ICC), pp. 3439-3444, 2012. DOI= <http://dx.doi.org/10.1109/ICC.2012.6364575>.

#### ***Short Papers and Demonstrations***

- C. Ziftci, N. Nikzad, N. Verma, P. Zappi, E. Bales, I. Krueger, and W.G. Griswold. "Citizensense: mobile air quality sensing for individuals and communities." In Proceedings of the 3rd annual conference on Systems, programming, and applications: software for humanity, pp. 23-24. ACM, 2012.
- E. Bales, N. Nikzad, N. Quick, C. Ziftci, K. Patrick, and W.G. Griswold. "Citizensense: Mobile air quality sensing for individuals and communities Design and deployment of the Citisense mobile air-quality system." In Pervasive Computing Technologies for Healthcare (PervasiveHealth), 2012 6th International Conference on, pp. 155-158. IEEE, 2012.

#### ***Book Chapters***

- N. Nikzad, P. Aghera, P. Zappi, and T.S. Rosing, “Energy management in heterogeneous wireless health care networks”, in Energy-Efficient Distributed Computing Systems (eds A. Y. Zomaya and Y. C. Lee), John Wiley & Sons, Inc., 2012. DOI = <http://dx.doi.org/10.1002/9781118342015.ch26>

#### ***Technical Reports***

- E. Bales, N. Nikzad, C. Ziftci, N. Quick, W.G. Griswold, and K. Patrick, “Personal pollution monitoring: mobile real-time air-quality in daily life”, University of California, San Diego, Department of Computer Science and Engineering, Technical Report CS2014-1005, 2014. [http://csetechrep.ucsd.edu/Dienst/UI/2.0/Describe/ncstrl.ucsd\\_cse/CS2014-1005](http://csetechrep.ucsd.edu/Dienst/UI/2.0/Describe/ncstrl.ucsd_cse/CS2014-1005)
- N. Nikzad, C. Ziftci, P. Zappi, N. Quick, P. Aghera, N. Verma, B. Demchak, K. Patrick, H. Shacham, T.S. Rosing, I. Krueger, W.G. Griswold, and S. Dasgupta, “CitiSense: Adaptive Services for Community-driven Behavioral and Environmental Monitoring to Induce Change”, University of California, San Diego, Department of Computer Science and Engineering, Technical Report CS2011-0961, 2011.

## **COLLABORATORS & OTHER AFFILIATIONS**

### *Recent Collaborators*

- |                       |                                     |
|-----------------------|-------------------------------------|
| • Priti Aghera        | Broadcom                            |
| • Ilya P. Agurok      | University of California, San Diego |
| • Ashkan Arianpour    | University of California, San Diego |
| • Elizabeth Bales     | Google                              |
| • Octav Chipara       | University of Iowa                  |
| • Sanjoy Dasgupta     | University of California, San Diego |
| • Joseph E. Ford      | University of California, San Diego |
| • William G. Griswold | University of California, San Diego |
| • Adam Johnson        | Distant Focus Corporation           |
| • Dilip Krishnaswamy  | IBM Research Labs                   |

- Ingolf Krueger                      ViaSat
- Willaim M. Mellette              University of California, San Diego
- Rick Morrison                      Distant Focus Corporation
- Nojan Motamedi                   University of California, San Diego
- Stephen J. Olivas                   Trex Enterprises
- Kevin Patrick                      University of California, San Diego
- Nichole Quick                      Yuba County Public Health Office
- Marjan Radi                        University of Iowa
- Tajana S. Rosing                  University of California, San Diego
- Glenn M. Schuster                University of California, San Diego
- Michal Šorel                        Academy of Sciences (Czech Republic)
- Ron A. Stack                        Distant Focus Corporation
- Igor Stamenov                      Samsung Research America
- Steven Steinhubl                  Scripps Translational Science Institute
- Nakul Verma                        Howard Hughes Medical Institute
- Jinseok Yang                        University of California, San Diego
- Piero Zappi                         Qualcomm
- Celal Ziftci                         Google

*Advisors*

- Graduate advisor:                William G. Griswold      University of California, San Diego
- Postdoctoral sponsor:         Steven Steinhubl         Scripps Translational Science Institute