Muhammed Veli

Department of Electrical Engineering
University of California, Los Angeles
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EDUCATION

University of California, Los Angeles, CA **2014- present**
PhD in Electrical Engineering

University of California, Los Angeles, CA **2014-2016**
M.S. in Electrical Engineering

Bilkent University, Ankara, Turkey **2010-2014**
B.S. in Electrical and Electronics Engineering
CGPA: 3.90/4.00

University of California, Los Angeles, CA **2012 - 2013**
Exchange Student in Electrical Engineering
CGPA: 3.90/4.00

Ankara Science High School, Turkey **2006 - 2010**

RESEARCH EXPERIENCE

PhD Student **September 2014 - present**
University of California, Los Angeles (UCLA), Electrical Engineering Department
(*under Prof.Aydogan Ozcan*)

Undergraduate Research **October 2012-August 2013**
University of California, Los Angeles (UCLA), Electrical Engineering Department
(*under Prof.Aydogan Ozcan*)

Research Intern **June 2012-August 2012**
Massachusetts Institute of Technology (MIT), Department of Biological Engineering

Research Intern **June 2011-September 2011**
Massachusetts Institute of Technology (MIT), Department of Biological Engineering

PUBLICATIONS

Journal Articles

1. "High-Throughput and Label-Free Single Nanoparticle Sizing Based on Time-Resolved On-Chip Microscopy," E. McLeod, T.U. Dincer, **M. Veli**, Y.N. Ertas, C. Nguyen, W. Luo, A. Greenbaum, A. Feizi, and A. Ozcan, ACS Nano
DOI: 10.1021/acsnano.5b00388 (2015)

2. "Tunable vapor-condensed nanolenses," E. McLeod, C. Nguyen, P. Huang, W. Luo, **M. Veli**, and A. Ozcan, ACS Nano (2014)
DOI:10.1021/nn502453h

Conference Papers

1. "Nanoparticle and virus sizing through time-resolved lensfree holographic on-chip microscopy,"C. Nguyen, Y. Mi, E. McLeod, T.U. Dincer, **M. Veli**, W. Luo, and A. Ozcan, 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015,

University of California, Santa Cruz, CA, USA

2. "Field-Portable Nanoparticle and Virus Sizing Enabled by On-Chip Microscopy and Vapor-Condensed Nanolenses,"E. McLeod, T.U. Dincer, **M. Veli**, Y.N. Ertas, C. Nguyen, W. Luo, A. Greenbaum, A. Feizi, and A. Ozcan, OSA Conference on Lasers and Electro-optics (CLEO 15), May 10-15, 2015, San Jose, CA USA, Paper # STu2K.6

3. "Tunable vapor-condensed nanolenses for label-free nanoscale imaging and sensing, E. McLeod, C. Nguyen, P. Huang, W. Luo, **M. Veli**, and A. Ozcan, SPIE Photonics West, Nanoscale Imaging, Sensing, and Actuation for Biomedical Applications XII, February 7-12, 2015, San Francisco, CA, Paper # 9337-16 (Invited Talk)

4. "Field- portable and cost-effective holographic device for label-free nanoparticle and virus imaging and sizing, E. McLeod, T. U. Dincer, **M. Veli**, Y. N. Ertas, C. Nguyen, W. Luo, and A. Ozcan, SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 7- 12, 2015, San Francisco, CA, Paper # 9314-5

5. "Vapor-Condensed Nanolenses for Label-Free Nanoparticle and Virus Imaging Using Lensfree Holographic On- Chip Microscopy, E. McLeod, C. Nguyen, P. Huang, W. Luo, **M. Veli**, and A. Ozcan, Materials Research Society, MRS Fall Meeting, Boston, MA (November 30 December 5, 2014)

6. "Vapor-Condensation of Tunable Nanolenses for Cost-Effective and Portable Lensfree Microscopes, C. Nguyen, E. McLeod, P. Huang, W. Luo, **M. Veli**, and A. Ozcan, Southern California Conference for Undergraduate Research (SCCUR), November 22, 2014, California State University, Fullerton, USA

7. "Self-assembled Liquid Nanolenses for Wide-field Nanoparticle and Virus Imaging," E. McLeod, C. Nguyen, P. Huang, W. Luo, **M. Veli**, and A. Ozcan, 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, USA

8. "Self-assembly via condensation of polymer liquid nanolenses for wide-field nanoparticle and virus imaging, E.R. McLeod, P. Huang, **M. Veli**, S. Acharya, W. Luo and A. Ozcan, SPIE Photonics West, Advanced Fabrication Technologies for Micro/Nano Optics and Photonics VII, February 2014, San Francisco, CA, paper # 8974-9

ACHIEVEMENTS and HONORS

- *Departmental Fellowship* - Department of Electrical Engineering at UCLA (2014)
- *Research Excellence Award* - Department of Electrical and Electronics Engineering at Bilkent University (2014)
- *High Honor Student* award for all semesters of undergraduate study at Bilkent University (2010 - 2014)
- *Comprehensive Scholarship* from Bilkent University - top scholarship for undergraduate studies (2010 - 2014)
- *Undergraduate Fellowship* from The Scientific and Technological Research Council of Turkey - for achievements in National Science Olympiads (2010-2014)
- ***Bronze Medal*** in Physics National Science Olympiad, Turkey (2009)
- 3rd Prize in Physics National Science Olympiad, Central Anatolian Region, Turkey (2009)

TEACHING EXPERIENCE

Teaching Assistant in Physics (2010-2013)

- International Physics Olympiad Preparation Summer and Winter Schools organized by National Science Council of Turkey, held problem solving and discussion sessions for two weeks everyday in winter and summer schools, prepared the exams

TECHNICAL SKILLS

- *Languages & Software:* Python, Java, LabVIEW, MATLAB, VHDL, Assembly, Arduino
- *Application Programs:* CAD design program(Autodesk Inventor), PCB design program(Eagle), circuit design programs(5spice, P-SPICE, LTSpice)

PERSONAL INTEREST and HOBBIES

Photography, Swimming, Rowing, Soccer, Nature Trips