

CONTACT INFORMATION	The Robotics Institute Carnegie Mellon University, 5000 Forbes Ave, Pittsburgh, PA 15213	(+1) 412 799 3916 hamedk@andrew.cmu.edu www.hamedkiani.com
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RESEARCH INTERESTS	3D Object Understanding Visual Object Tracking Deep Learning	Crowd Behavior Analysis Person Re-identification Face Analysis
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EDUCATION

National University of Singapore, Singapore

Ph.D., Computer Science, Aug 2009 - Aug 2014

- Thesis Topic: *Multi-Channel Correlation Filters with Limited Boundaries: Theory and Applications*
- Advisors: Associate Prof. Terence Sim

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

M.Sc., Computer Engineering, 2009

- Topic: *A Multimodal Biometric Identification System based on Fingerprint and Iris*
- Advisor: Prof. Reza Safabakhsh

Sharif University of Technology, Tehran, Iran

B.Sc., Computer Engineering, 2006

- Topic: *Parsing of Context Free Languages*
- Advisor: Associate Prof. Ghassem Jaberipour

RESEARCH
EXPERIENCE

Postdoctoral Fellow	Robotics Institute, Carnegie Mellon University Pittsburgh, USA Supervisor: Prof. Simon Lucey	March 2016 to present
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Postdoctoral Fellow	PAVIS Lab, Istituto Italiano di Tecnologia Genova, Italy Supervisor: Prof. Vittorio Murino	Sep 2014 to Feb 2016
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Research Assistant	Computer Vision Lab, School of Computing National University of Singapore Supervisor: Prof. Terence Sim	Feb 2009 to Aug 2014
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Research Intern	ICT Center Computer Vision Lab CSIRO, Australia Supervisor: Prof. Simon Lucey	Aug 2012 to Jan 2013
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Research Assistant

Aug 2006 to Feb 2009

Computer Vision Lab, School of Computing
Amirkabir University of Technology
Supervisor: Prof. Reza Safabakhsh

SELECTED PUBLICATIONS

1. R. Zhu, **H. Kiani**, S. Lucey "Reconsidering Reprojection: A Deep Framework to Predict Pose-Aware 3D Shape from Single Image." *Submitted to CVPR*, 2017.
2. **H. Kiani**, A. Fagg, S. Lucey "Learning Background-Aware Correlation Filters for Object Tracking." *Submitted to CVPR*, 2017.
3. C. Kong, R. Zhu, **H. Kiani**, S. Lucey "Structure from Category: A Generic and Prior-less Approach." *3DV*, 2016.
4. S. Mohammadi, A. Perina, **H. Kiani**, V. Murino "Angry Crowds: Detecting Violent Events in Videos." *ECCV*, 2016.
5. **H. Kiani**, T. Sim "Correlation Filter Cascade for Facial Landmark Localization." *WACV*, 2016.
6. Anirban Chakraborty, Bappaditya Mandal and **H. Kiani**, " Person Re-identification Using Multiple First-Person-Views on Wearable Devices." *WACV*, 2016.
7. H. Mousavi, **H. Kiani**, A. Perina and V. Murino "Detecting Abnormal Behavioral Patterns in Crowd Scenarios", *In Springer book on Toward Robotic Socially Believable Behaving Systems*, 2015.
8. **H. Kiani**, T. Sim, S. Lucey "Correlation Filters with Limited Boundaries." *CVPR*, 2015.
9. S. Mohammadi, **H. Kiani**, A. Perina, V. Murino "A comparison of crowd commotion measures from generative models." *CVPR workshop - GROW*, 2015.
10. H. Mousavi, M. Nabi, **H. Kiani**, A. Perina, V. Murino "Crowd Motion Monitoring Using Trackle-based Commotion Measure", *ICIP*, 2015.
11. S. Mohammadi, **H. Kiani**, A. Perina, V. Murino "Violence Detection in Crowded Scenes using Substantial Derivative." *AVSS*, 2015.
12. **Kiani, H.**, Sim, T., Lucey, S. "Multi-Channel Correlation Filters for Human Action Recognition" *ICIP*, 2014.
13. **Kiani, H.**, Sim, T., Lucey, S. "Multi-Channel Correlation Filters." *Proceeding of the International Conference on Computer Vision, ICCV'13*, 2013.
14. **Kiani, H.** and Sim, T. "Face photo retrieval by sketch example." *Proceedings of the 20th ACM international conference on Multimedia.*, pp. 949 - 952, ACM, 2012.

15. **Kiani, H.** and Sim, T. "Face sketch recognition by Local Radon Binary Pattern: LRBP." *Proceedings of the International Conference on Image Processing (ICIP)*., pp. 1837 - 1840, 2012.
16. **Kiani, H.** and Sim, T. "Inter-modality face sketch recognition." *Proceedings of the International Conference on Multimedia and Expo (ICME)*., pp. 224 - 229, 2012.
17. Lim, K. L., and **Kiani, H.** "Shape classification using local and global features." *Proceedings of the Pacific-Rim Symposium on Image and Video Technology (PSIVT)*., pp. 115 - 120, 2010.
18. **Kiani, H.** "Tracking group of people in presence of occlusion." *Proceedings of the Pacific-Rim Symposium on Image and Video Technology (PSIVT)*., pp. 438 - 443, 2010.

AWARDS AND
HONORS

Awarded NUS Research Scholarship, 2009 - 2014.
Ranked 20th among 400,000 Contestants in Iranian National Entrance Exam for B.Sc Studies, 2000.

TECHNICAL
SKILLS

MATLAB, C++, Algorithm Design and Data Structure

REFERENCES

Prof. Simon Lucey

Phone: (+1) 412 268 2889
The Robotics Institute, Carnegie Mellon University
Pittsburgh, PA, USA
E-mail: slucey@cs.cmu.edu

Prof. Deva Ramanan

Phone: (+1) 412 268 6966
The Robotics Institute, Carnegie Mellon University
Pittsburgh, PA, USA
E-mail: deva@cs.cmu.edu

Dr. Alessandro Perina

Phone: (+1) 426 707 1618
Microsoft Corporation
One Microsoft Way, Redmond, WA 98052
E-mail: alperina@microsoft.com

Prof. Terence Sim

Phone: (+65) 6516 1180
School of Computing
National University of Singapore, Singapore
E-mail: tsim@comp.nus.edu.sg