

Ryan Matthew Farrell

farrell@cs.byu.edu · webpage · (650) 380-1184

Personal Information

Current Positions

Assistant Professor (since Aug. 2013), Computer Science Department, **Brigham Young University (BYU)**, Provo, UT

Education

University of Maryland - College Park, MD

Ph.D. in Computer Science, MAY 2011, 3.8 GPA

Advisor: Professor Larry S. Davis

“Learning Visual Patterns: Imposing Order on Objects, Trajectories and Networks”

M.S. in Computer Science, DECEMBER 2006

Advisor: Professor Larry S. Davis

University of California - Berkeley, CA

B.S. in Electrical Engineering and Computer Science, AUGUST 2001

Employment

2013-PRESENT	Assistant Professor Computer Science Department, Brigham Young University (BYU)
2012-2013	Research Scientist (with Professor Trevor Darrell)
2011-2012	Postdoctoral Fellow (with Professor Trevor Darrell) International Computer Science Institute / UC Berkeley
2006-2011	Graduate Research Assistant (with Professor Larry Davis) University of Maryland, College Park

Research and Scholarly Activities

Selected Publications (in refereed Journals, Conferences and Workshops)

Grant Van Horn, Steve Branson, Ryan Farrell, Serge Belongie, Pietro Perona, “The Fine Print in Fine-grained Dataset Collection”, Computer Vision and Pattern Recognition (CVPR), June 2015 (accepted).

Ning Zhang, Ryan Farrell, Forrest Iandola, Trevor Darrell, “Deformable Part Descriptors for Fine-grained Recognition and Attribute Prediction”, International Conference on Computer Vision (ICCV), Dec 2013 (28% acceptance).

Ning Zhang, Ryan Farrell, Trevor Darrell, “Pose Pooling Kernels for Sub-category Recognition”, Computer Vision and Pattern Recognition (CVPR), June 2012 (26% acceptance).

Ryan Farrell, Om Oza, Ning Zhang, Vlad Morariu, Trevor Darrell, Larry S. Davis, “Subordinate Categorization Using Volumetric Primitives and Pose-Normalized Appearance”, International Conference on Computer Vision (ICCV), November 2011 (**Oral**, only about 4% acceptance).

Ryan Farrell, Roberto Garcia, Dennis Lucarelli, Andreas Terzis, I-Jeng Wang,
“Target Localization in Camera Wireless Networks”, Pervasive and Mobile Computing, April 2009.

Ryan Farrell and Larry S. Davis,
“Decentralized Discovery of Camera Network Topology”, International Conference on Distributed Smart Cameras (ICDSC), September 2008.

Dennis Lucarelli, Anshu Saxena, Ryan Farrell, I-Jeng Wang,
“Distributed Inference for Network Localization using Radio Interferometric Ranging”, European Conference on Wireless Sensor Networks (EWSN), January-February 2008.

Ani Kembhavi, Ryan Farrell, David Jacobs, Ramani Duraiswami, Larry S. Davis,
“Tracking Down Under: Following the Satin Bowerbird”, Workshop on Applications of Computer Vision (WACV), January 2008.

Ryan Farrell, Roberto Garcia, Dennis Lucarelli, Andreas Terzis, I-Jeng Wang,
“Localization in Multi-Modal Sensor Networks”, International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP), December 2007. **Best Paper Award.**

Ryan Farrell, David Doermann, Larry S. Davis, “Learning Higher-order Transition Models in Medium-scale Camera Networks”, ICCV Workshop on Omnidirectional Vision, Camera Networks and Non-classical Cameras (OMNIVIS), October 2007.

Awards

Faculty Excellence in Teaching Award (3-10 years), College of Physical and Mathematical Sciences, February 2018.

NSF CAREER Award, National Science Foundation, February 2017 (2017-2022).
“Inverse Origami: Generalized Pose-Normalization for Large-Scale Fine-Grained Recognition”

Best Paper Award, International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP), 2007. For paper: “Localization in Multi-Modal Sensor Networks,” by Ryan Farrell, Roberto Garcia, Dennis Lucarelli, Andreas Terzis, I-Jeng Wang.

Teaching

Assistant Professor, Brigham Young University (BYU)

- CS 142 Introduction to Computer Programming (C++)
WINTER 2014, SUMMER 2014, WINTER 2015, WINTER 2016
- CS 312 Algorithm Design and Analysis
WINTER 2017, WINTER 2018
- CS 401R Projects in Computer Vision
WINTER 2016
- CS 450 Image Processing and Computer Vision
FALL 2013, FALL 2014, FALL 2015, WINTER 2017, WINTER 2018
- CS 601R Inference and Recognition in Visual Domains
FALL 2015, FALL 2016, SPRING 2018

Service

Professional

Area Chair - CVPR (Computer Vision and Pattern Recognition), 2016, 2019
WACV (Winter Conference on Computer Vision), 2019

Program Chair - SIBGRAPI 2015 (Conference on Graphics, Patterns and Images)

Organizer - FifthWorkshoponFine-grainedVisualCategorization(FGVC5), 2018.
FirstWorkshoponVisualWildlifeMonitoring(VWM), 2017.
FourthWorkshoponFine-grainedVisualCategorization(FGVC4), 2017.
ThirdWorkshoponFine-grainedVisualCategorization(FGVC³), 2015.
SecondWorkshoponFine-grainedVisualCategorization(FGVC²), 2013.
FirstWorkshoponFine-grainedVisualCategorization(FGVC), 2011.

Website Chair/Co-chair - Computer Vision and Pattern Recognition (CVPR), 2010, 2012 - 2014.
International Conference on Computer Vision (ICCV), 2013, 2015.

PC Member - International Conference on Computer Vision (ICCV), 2011, 2013, 2015, 2017.
Computer Vision and Pattern Recognition (CVPR), 2010 - 2018.
European Conference on Computer Vision (ECCV), 2010, 2012, 2014, 2016, 2018.

Reviewer - International Journal of Computer Vision (IJCV), FROM 2010.
Transactions on Pattern Analysis and Machine Intelligence (PAMI), FROM 2012.