

SANG MIN HAN

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Electrical Engineering and Computer Sciences*

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RESEARCH INTERESTS	Optimization, signal processing, statistics, and their applications	
EDUCATION	University of California, Berkeley , Berkeley, CA M.S./Ph.D., Electrical Engineering and Computer Sciences: Aug., 2015–present <ul style="list-style-type: none">Advisor: <i>Prof. Thomas Courtade</i> Cornell University , Ithaca, NY B.S., Electrical and Computer Engineering, <i>Summa Cum Laude</i> : May, 2015 <ul style="list-style-type: none"><i>Applied Mathematics minor</i> Thomas Jefferson High School for Science and Technology , Alexandria, VA TJ Diploma: Jun., 2011	
RELEVANT COURSEWORK	University of California, Berkeley , Berkeley, CA Random Processes Information Theory and Coding Theoretical Statistics (Statistical) Digital Signal Processing Cornell University , Ithaca, NY Applied Complex Analysis Real Analysis Optimal System Analysis Inverse Methods	Optimization Models Convex Optimization Optimization Algorithms and Analysis Digital Signal Processing Statistical Signal Processing and Learning Sparse Signal Processing Digital Communication
HONORS	National Science Foundation Graduate Research Fellowship: 2016–2019 Departmental Fellowship, University of California, Berkeley Department of EECS: 2015–2016 William S. Einwechter Award, Cornell University School of ECE: 2015 Merrill Presidential Scholar, Cornell University: 2015 Hunter R. Rawlings III Cornell Presidential Research Scholarship, Cornell University: 2011–2015 College of Engineering Global Fellow, Cornell University College of Engineering: 2013 Intel Science Talent Search Semifinalist, Society for Science & the Public: 2011	
PROFESSIONAL EXPERIENCE	<i>Wright State Research Institute Automatic Target Recognition Center Intern</i> Wright State University/Air Force Research Laboratory, Dayton, OH: Jun., 2015–Aug., 2015 <i>Visiting Student</i> Massachusetts Institute of Technology Department of Mathematics, Cambridge, MA: Jun., 2015 <i>Student Electrical Engineer</i> United States Naval Research Laboratory, Washington, D.C.: Jun., 2010–Jan., 2015 <i>Research and Development Engineer Intern</i> Infirera, Sunnyvale, CA: Jun., 2014–Aug., 2014	

Jicamarca Radio Observatory International Research Experience Program Student
Jicamarca Radio Observatory, Lima, Peru: May, 2013–Aug., 2013

Polar Aeronomy and Radio Science Summer School 2012 Student
Geophysical Institute, Fairbanks & Gakona, AK: Jul., 2012–Aug., 2012

TEACHING
EXPERIENCE

University of California, Berkeley

Graduate Student Instructor, Signals and Systems: Spring 2017

Cornell University

Teaching Assistant, Intro to Probability and Inference for Random Signals and Systems: Fall 2014

Teaching Assistant, Signals and Information: Spring 2014

Consultant, Intro to Computing Using MATLAB: Fall 2012 & Spring 2013

Consultant, Transition to MATLAB: Fall 2012 & Spring 2013

JOURNAL
PUBLICATIONS

- [1] Paul A. Bernhardt, Stanley J. Briczinski, **Sang Min Han**, Arne W. Fliflet, Caroline E. Crockett, Carl L. Siefring, and Steven H. Gold, "Visible Plasma Clouds With an Externally Excited Spherical Porous Cavity Resonator," *IEEE Transactions on Plasma Science*, vol. 43, no. 6, pp. 1911-1918, June 2015.
- [2] S. J. Briczinski, P. A. Bernhardt, C. L. Siefring, **S.-M. Han**, T. R. Pedersen, W. A. Scales, "'Twisted Beam' SEE Observations of Ionospheric Heating from HAARP," *Earth, Moon, and Planets*, pp. 1-12, January 2015.

CONFERENCE
PUBLICATIONS

- [1] A. N. Rice, **S. M. Han**, B. R. Land, A. H. Bass, "Simple mechanical model reproduces complex calls in a fish vocal system: Implications for the evolution of vertebrate acoustic communication systems," *The Journal of the Acoustical Society of America*, vol. 137, no. 4, p. 2221, April 2015.

CONFERENCE
TALKS

- [1] **S. Han**, A. N. Rice, B. R. Land, A. H. Bass, "Simple mechanical model reproduces complex calls in a fish vocal system: Implications for the evolution of vertebrate acoustic communication systems," *169th Meeting of the Acoustical Society of America*, May 18, 2015.

PROFESSIONAL
ACTIVITIES

Student Member, IEEE: 2014–Present

TECHNICAL
SKILLS

Applications: InDesign, Dreamweaver

Computer: L^AT_EX, Linux

Programming: C, Java, Mathematica, MATLAB, Python, VB.NET

Languages: Korean (bilingual/native), Spanish (4 years of education and 10 weeks in Peru)