

Thesis Supervised, Examined, Etc.

The list of graduate theses written under my supervision are given below:

List of PhD Students/Theses Supervised

Name of Former PhD Student	Title of Thesis and Date
1- Professor Michael Rosenblum	Approximating Fluid Schedules in Packet-Switched Networks, 2004
2- Dr. Raymond Yim	Cross-layer distributed algorithm designs in wireless networks, 2006
3- Professor Patrick Mitran	Problems in communications and detection for unknown channels, 2006
4- Professor Natasha Devroye	Information theoretic limits of cognition and cooperation in wireless networks, 2007
5- Dr. Peter Parker	On bounds and algorithms for cooperative wireless communication, 2008
6- Dr. Dongwoon Bai	The gain of cross -layer scheduling and advanced antenna techniques, 2009
7- Dr. Jinsoo Park	Compressed sensing using graphical models, 2009
8- Dr. Sang Joon Kim	Performance bounds for bi-directional half-duplex relaying protocols, 2009
9- Professor Mehmet Akcakaya	An information theoretic approach to compressed sensing and its utility in magnetic resonance imaging, 2010
10- Professor Behtash Babadi	Fundamental Limits and Constructive Methods for Estimation and Sensing of Sparse Signals, 2011
11- Dr. Yongjun Park	Near Shannon Limit and Reduced Peak to Average Power Ratio Channel Coded OFDM, 2012
12- Dr. Seunghoon Nam	Accelerated Cardiovascular Magnetic Resonance Imaging Using Radial Acquisition with Compressed Sensing, 2012
13- Dr. Siddhartha	Peak Sidelobe Level Distribution Computation for Ad Hoc Arrays

Krishnamurthy	using Extreme Value Theory, 2014
14 - Dr. Binoy George Kurien	Algorithms and Array Design for Robust Imaging in Interferometry, 2016
15 - Dr. Jie Ding	Nonlinear Modeling and Prediction for Time Series, 2017
16- - Dr. Ian Weiner	High SNR Capacity of AWGN Channels with Generic Alphabet Constraints, 2017

M.S. and M.Eng. Students Supervised & Their Theses

17- Michael Girone	Tracking switch fluid policies; bounding lookahead, 2002
18- Karen Min Guan	Quadrature amplitude modulated codes for orthogonal frequency division multiplexing applications, 2002
19- Danielle A. Hinton	Turbo coding in correlated fading channels, 2002
21- Paul Kariuki Njoroge	The capacity of a non-coherent channel: multi user setting, 2002
22- David Chunyi Lee	Simulating Turbo codes using a modular simulation platform, 2002
23- Naveen N. Sunkavally	Measurement-based analysis of MIMO communications over the PCS spectrum, 2002
24- William Erik Anderson	Applications of algebraic geometry to coding & cryptography, 2002
25- Chan Vee Chong	Quadrature amplitude modulated codes with low peak-to-mean envelope power ratio for orthogonal frequency division multiplexing applications, 2001
26- Irina Medvedev	A channel-shortening multiuser detector for DS-CDMA systems, 2001
27- Anne On-Yi Pak	Euclidean space codes as space-time block codes, 2001
28- Thorvardur Sveinsson	Coexistence of Ultra-Wideband Systems with IEEE-802.11a Wireless LANs, 2003
29- Patrick Kuiper	Base Camp Quality of Life Standardization and Improvement, 2016

Undergraduate Senior Thesis Supervised

Name of Undergraduate Student	Thesis Title
30 - Sherry Wu	Image Reconstruction Using a Mixture of Phaseless and Phased Fourier Measurements, 2014

List of Thesis that I served as a member of committee is given below.

List of PhD/Thesis Students for Which I served as a Committee Member (Examiner)

Name of PhD Student	Title of Thesis and Date
1- Dr. Manish Gupta	Complexity Reduction for Near Real-Time High Dimensional Filtering and Estimation Applied to Biological Signals, 2016
2- Dr. Chenhui Hu	Graph-Based Data Mining in Neuroimaging of Neurological Diseases, 2016
3- Dr. Ameya Agaskar	Problems in Signal Processing and Inference on Graphs, 2015
4- Dr. Xudong Chen	Multi-Agent Systems with Reciprocal Interaction Laws, 2014
5- Dr. Steve Hou	Time-Domain Fluorescence Diffuse Optical Tomography: Algorithms and Applications, 2014
6- Dr. Van Koroleva	Stable and Efficient Sparse Recovery for Machine Learning and Wireless Communication, 2013
7- Dr. Jamin Sherrif	The Convexity of Quadratic Maps and The Controllability of Coupled Systems, 2013
8- Dr. Tsung Han Lin	Control of spin dynamics for applications in Nuclear Magnetic Resonance, 2013
9- Dr. Alan O'Connor	Optimal Control of Active Sensing Systems, 2011
10-Dr. Daniel Rudoy	Non-stationary Time Series Modeling with Application to Speech Signal Processing, 2010
11- Dr. Mehdi Ansari Sadrabadi	Studies on Trade-off Between Throughput and Reliability in Wireless Networks, 2008
12- Dr. Hugues Mercier	Communications Over Channels With Symbol Synchronization Errors, 2007
13- Dr. Chen-Mou Chang	AANET: Aerial Ad hoc Networking, 2007
14- Dr. Haidong Yuan	Geometry, Optimal Control and Quantum Computing, 2006
15-Dr. Wei Zeng	Communications over Channels with Synchronization Errors, 2006
16-Dr. Jason Bellorado	Low Complexity Soft Decoding Algorithms for Reed-Solomon Codes 2006
17-Dr. Nedeljko Varnica	Iteratively Decodable Codes for Memoryless and Intersymbol Interference Channels, 2005
18- Dr. Shaohua Yang	The Capacity of Communications Channels with Memory, 2004
19- Dr. Abdol Reza Mansouri	Sub-elliptic Diffusions, Geometry and Control 2004

20- Dr. Manuela A. S. Pereira	On the Radon Transform of Sampled Functions 2003
21- Dr. Shane M. Haas	Capacity of and Coding for Multiple-aperture, Wireless, Optical Communications, 2003
22- Dr. Paul Peter Sotiriadis	Interconnect Modeling and Optimization in Deep Submicron Technologies, 2002
23- Jihwan Patrick Choi (M.S. Thesis)	Channel Prediction and Adaptation Over Satellite Channels with Weather-Induced Impairments, 2000
24- Dr. Jordan Hashemi	Automatic Behavioral Analysis from Faces and Applications to Risk Maker Quantification for Autism
25- Dr. Qiuyi Han	Advances in Statistical Network Modeling and Nonlinear Time Series Modeling