

CURRICULUM VITAE FOR PROF. VOLKAN CEVHER

Assistant Professor of Electrical Engineering

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RESEARCH INTERESTS

Signal processing; machine learning; optimization; information theory; statistics.

EDUCATION

2005	Georgia Institute of Technology	Ph.D. in Electrical and Computer Engineering
	Advisor: <i>James H. McClellan</i>	
1999	Bilkent University (Turkey)	B.Sc. in Electrical Engineering and Electronics

POSITIONS HELD

2010–present	Assistant Professor	Director: <i>Laboratory for Information and Inference Systems (LIONS)</i>	EPFL
2010–present	Faculty Fellow	ECE Department	Rice University
2010–2012	Assistant Professor		Idiap Research Institute
2008–2009	Research Scientist	Advisor: <i>Richard G. Baraniuk</i>	Rice University
2006–2007	Postdoctoral Fellow	Advisor: <i>Rama Chellappa</i>	University of Maryland
2005–2006	Postdoctoral Fellow	Advisor: <i>James H. McClellan</i>	Georgia Institute of Technology

ACADEMIC HONORS AND RECOGNITIONS

2012 European Research Council (ERC) Junior Starting Grant
2011 IEEE Spoken Language Processing Award at *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*
2010 Marie Curie International Reintegration, *Transnational Mobility Award*
2009 Best Student Paper Award at *Signal Processing with Adaptive Sparse Structured Representations (SPARS)*
2009 IEEE Comsoc TR-Chapter Distinguished Lecturer
2004 Center for Signal and Image Processing Outstanding Research Award
1999 Valedictorian, *Bilkent University, Department of Electrical Engineering and Electronics*

RESEARCH SUPPORT (EPFL)

2014–2017	SNFS	<i>Large-Scale Sparse Bayesian Modeling, Inference, and Design</i> (PI)	(CHF 556K)
2013–2016	SNFS	<i>Scalable and Accurate Quantum Tomography</i> (PI)	(CHF 200K)
2012–2016	ERC-StG	<i>Future proof</i> (single-PI)	(€1.84M)
2011–2014	SNFS	<i>Compressive sensing with graphical models</i> (PI)	(CHF 160K)
2011–2013	DARPA	<i>Knowledge enhanced exapixel photography</i> (co-PI)	(CHF 3.0M)
2010–2014	EC-REA	<i>Marie Curie International Reintegration Grant</i> (PI)	(€100K)

TEACHING

EE 556	(Fall 2014) Mathematics of Data: From Theory to Computation (developed and taught)	EPFL
	(Summer 2013) Mathematics of Data: From Theory to Computation	Duke University
EE 614	(Fall 2012) Theory and Methods for Linear Inverse Problems (developed and taught)	EPFL
EE 204	(Spring and Fall 2010, Fall 2011–13) Circuits and Systems (developed and taught)	EPFL
EE 717	(Fall 2010–11) Graphical Models (developed and taught)	EPFL
ELEC 633	(Fall 2008) Graphical Models (developed and taught)	Rice University
ENEE 633	(Fall 2006) Statistical and Neural Pattern Recognition (developed and taught)	UMD

PROFESSIONAL ACTIVITIES

EDITORIALS:

2014 Guest Editor, “Signal Processing for Big Data,” *IEEE Journal on Special Topics in Signal Processing*, target publication date: July 2015.

WORKSHOP/CONFERENCE/SESSION ORGANIZATION:

- 2010–14 MLSP’14, ISIT’14, ICASSP’14, SAM’14; **SPARS’13 (Main Chair)**, **CAMSAP’13 (Technical Chair)**; SIAM Imaging Science’12; CAMSAP’11, EUSIPCO’11, ICASSP’11, SAMPTA’11; NIPS’10.
- 2011 Co-organizer, *Electrical Engineering Institute Summer School*, EPFL, Switzerland.
- 2010 Co-organizer, *Electrical Engineering Institute Industry Day*, EPFL, Switzerland.
- @Rice ITW’09, ITA’09; ICIP’08 (Publicity Chair).

TUTORIALS:

- 2015 “Convex Optimization for Big Data,” with Mario Figueiredo, Quoc Tran-Dinh, and Mark Schmidt, *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Brisbane, Australia.
- 2013 “Convex and nonconvex approaches for low-dimensional models,” with Mario Figueiredo, *IEEE Computational Advances in Multi-sensor Adaptive Processing (CAMSAP)*, St. Martin.
- 2013 “Compressed sensing – Theory and applications,” with Holger Rauhut, *Winter Conference in Statistics*, Umea University, Umea, Sweden.
- 2012 “Convex and nonconvex approaches for low-dimensional models,” with Mario Figueiredo, *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Kyoto, Japan.
- 2010 “Compressive sensing and applications,” with Justin Romberg, *IEEE/ACM International Conference on Distributed Smart Cameras (ICDSC)*, Atlanta, GA, USA.

MEMBERSHIPS:

- 2014 EDIC Program Committee
- 2014 EPFL Ecocloud Faculty Member
- 2013 IEEE Machine Learning for Signal Processing Technical Committee Member
- 2012 IEEE Sensor Array and Multichannel Technical Committee Member
- 2010 IEEE Senior Member

STUDENTS AND POSTDOCS ADVISED (EPFL)

- PhD M. El Halebi, B. Gozcu, Y-H. Li, A. Yurtsever, A. Kyrillidis (now postdoc at UT Austin).
- (co-advised) R-C. Ionescu, E. Collins, I. Bogunovic, C. Aprile, A. Asaei (graduation: Sept. 2013, now postdoc at Idiap).
- Postdocs Dr. J. Scarlett, Dr. Q. T. Dinh, Dr. L. Baldassarre, Dr. B. Bah (now postdoc at UT Austin).
- Interns P. Vashishtha, R. Das, A. Hadavi, S. Hasheminezhad, E. Valavi, R-C. Ionescu, E. Abbasi, R. K. Mahabadi, S. Satpathi, E. Tinkir, G. Tabak, A. Sadeghian, S. Jain, N. Bhan, S. Dashmiz, M. H. Shafinia, M. Fatemi, H. Tyagi.