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EDUCATION

PhD, Signal Processing, Carlos III University of Madrid, Spain. (Expected) 2018
Thesis Title: Stochastic Filtering in High Dimensions

Supervisor: Joaquin Miguez.

MSc, Telecommunications Engineering, Istanbul Technical University, Turkey. 2012 Thesis Title: A Structured Sparse Decomposition Method for Audio Signals

BSc, Telecommunications Engineering, Istanbul Technical University, Turkey. 2010 Thesis Title: Anisotropic Diffusion in Image Processing

SELECTED WRITINGS

- "On the Relationship between Online Optimizers and Recursive Filters", Ö. D. Akyıldız, V. Elvira, J. Fernandez-Bes, J. Miguez, NIPS Workshop on Optimizing the Optimizers, Barcelona, Spain, 2016.
- 2. "Matrix Factorisation with Linear Filters", Ö. D. Akyıldız, Preprint, arXiv:1509.02088, 2015.
- 3. "Online Matrix Factorization via Broyden Updates", Ö. D. Akyıldız, Preprint, arXiv:1506.04389, 2015.
- "Primal-Dual Algorithms for Audio Decomposition Using Mixed Norms", İ. Bayram,
 D. Akyıldız, Journal of Signal, Image and Video Processing, 2014.
- 5. "An Analysis Prior Based Decomposition Method for Audio Signals", Ö. D. Akyıldız and İ. Bayram, EUSIPCO 2012.

WORK EXPERIENCE

Research Associate, Universidad Carlos III de Madrid, Spain. 2015 – with Signal Processing Group (GTS). on stochastic filters; Monte Carlo methods.

Research Assistant, Boğaziçi University, Istanbul, Turkey. 2012 – 2015 under the supervision of A. Taylan Cemgil with Statistical Inference Group. on Bayesian statistics; machine learning; probabilistic inference.

Quantitative Researcher, algosis inc. 2014 – 2015 on financial time series analysis; portfolio optimization; algorithmic trading.

Research Assistant, Istanbul Technical University, Turkey. 2010 – 2012 on convex optimisation; machine learning; signal processing.

VISITS & WORKSHOPS

NIPS Conference, Barcelona Spain.

5-10 December 2016.

European Workshop on Reinforcement Learning, Barcelona, Spain. 3-4 December 2016.

IEEE Workshop on Statistical Signal Processing, Palma de Mallorca, 26-29 June 2016.

School of Mathematical Sciences, Queen Mary University of London.

• 14-24 December 2015 / 1-5 February 2016 / 16-20 May 2016

Workshop on Sequential Monte Carlo, Imperial College London. 21-23 Dec. 2015

TEACHING EXPERIENCE	Teaching Assistant (Voluntarily), Boğaziçi University, Istanbul, Turk Monte Carlo methods (graduate course) \times 3 Instructor: A. Taylan Cemgil, Dept. of Computer Engineering.	2013 – 2015	
	Bayesian statistics and machine learning (graduate course) \times 2 Instructor: A. Taylan Cemgil, Dept. of Computer Engineering.	2013 - 2014	
PROFESSIONAL ACTIVITIES	$Reviewer \ {\it for the following journals: Digital Signal Processing, Elsevier; IEEE Signal Processing Letters; EURASIP Journal on Image and Video Processing.}$		
SKILLS	MATLAB, Python, LaTeX.		
GRADUATE SCHOOLS	Summer School on Uncertainty Quantification for Applied Problems 4-8 July 20 Basque Center for Applied Mathematics, Bilbao, Spain.		
	Machine Learning Summer School Max Planck Institute of Intelligent Systems, Tübingen, Germany. (accepted with extremely competitive full financial support.)	13-24 July 2015	
	Foundations and Advances in Stochastic Filtering Barcelona, Spain.	22-26 June 2015	
	Lectures on Large Deviations and Probability Models Mathematics Village, Şirince, Turkey.	1-8 September 2013	
HONORS	 Protel A.Ş. Graduate Fellowship Istanbul Metropolitan Municipality Undergraduate Fellowship Premiership Undergraduate Fellowship 	2010 - 2012 $2005 - 2008$ $2005 - 2010$	
TALKS	 Matrix Factorisation with Linear Filters, at UC3M Particle methods for parameter estimation, at Bogazici An online EM algorithm and applications, at Bogazici Stochastic approximations, at Bogazici 	ovember 14, 2016 October 22, 2015 March 31, 2015 ovember 26, 2013 March 26, 2013 January 21, 2013	
OTHER	I play guitar and drums, I like to read philosophy, I maintain a research blog:		

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