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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

PAPERS

- "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, Carlos III University of Madrid, Spain. 2015 – with Signal Processing Group (GTS). on stochastic filters; stochastic optimisation; 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 & CONFERENCES

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, Spain. 26-29 June 2016.

School of Mathematical Sciences, Queen Mary University of London, UK.

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

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

TEACHING EXPERIENCE	Teaching Assistant (Voluntarily), Boğaziçi University, Istanbul, Turkey. Monte Carlo methods (graduate course) \times 3 2013 – 2015 Instructor: A. Taylan Cemgil, Dept. of Computer Engineering.
	Bayesian statistics and machine learning (graduate course) \times 2 Instructor: A. Taylan Cemgil, Dept. of Computer Engineering.
SKILLS	MATLAB, Python, LaTeX.
GRADUATE SCHOOLS	Dobbiaco Summer School on Probabilistic Numerics 19-23 June 2017 Dobbiaco, Italy.
	Spring School and Workshop on Volatility Dynamics 10-13 April 2017 Bernoulli Center, EPFL, Lausanne, Switzerland.
	Summer School on Uncertainty Quantification for Applied Problems 4-8 July 2016 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.)
	Foundations and Advances in Stochastic Filtering 22-26 June 2015 Barcelona, Spain.
	Lectures on Large Deviations and Probability Models 1-8 September 2013 Mathematics Village, Şirince, Turkey.
HONORS	• Protel A.Ş. Graduate Fellowship 2010 – 2012
	• Istanbul Metropolitan Municipality Undergraduate Fellowship 2005 – 2008
	• Premiership Undergraduate Fellowship 2005 – 2010
TALKS	Talks that I gave.
	• A Filtering Approach to Stochastic Optimisation, at UC3M June 6, 2017
	• Filtering in high-dimensional spaces, at UC3M November 14, 2016
	• Matrix Factorisation with Linear Filters, at UC3M October 22, 2015
	• Particle methods for parameter estimation, at Bogazici March 31, 2015
	• An online EM algorithm and applications, at Bogazici November 26, 2013
	• Stochastic approximations, at Bogazici March 26, 2013
	• Learning in Linear Dynamical Systems, at Bogazici January 21, 2013
OTHER	I play guitar and drums, I like to read philosophy, I maintain a research blog:

http://www.almoststochastic.com.