

EDUCATION	<i>PhD</i> , Signal Processing, Carlos III University of Madrid, Spain. Ongoing <i>Thesis Theme</i> : Filtering methods for high dimensional inference and optimization <i>Supervisor</i> : Joaquin Miguez.
	<i>MSc</i> , Telecommunications Engineering, Istanbul Technical University, Turkey. 2012 <i>Thesis Title</i> : A structured sparse decomposition method for audio signals
	<i>BSc</i> , Telecommunications Engineering, Istanbul Technical University, Turkey. 2010 <i>Thesis Title</i> : Anisotropic diffusion in image processing
PAPERS	1. <i>Adaptive noisy importance sampling for stochastic optimization</i> , Ö. D. Akyıldız, I. P. Marino, J. Miguez, IEEE CAMSAP 2017.
	2. <i>Nudging the Particle Filter</i> , Ö. D. Akyıldız, J. Miguez, arXiv:1708.07801 .
	3. <i>On the Relationship between Online Optimizers and Recursive Filters</i> , Ö. D. Akyıldız, V. Elvira, J. Fernandez-Bes, J. Miguez, NIPS Workshop on Optimizing the Optimizers, Barcelona, Spain, 2016.
	4. <i>Matrix Factorisation with Linear Filters</i> , Ö. D. Akyıldız, Preprint, arXiv:1509.02088 , 2015.
	5. <i>Online Matrix Factorization via Broyden Updates</i> , Ö. D. Akyıldız, Preprint, arXiv:1506.04389 , 2015.
	6. <i>Primal-Dual Algorithms for Audio Decomposition Using Mixed Norms</i> , İ. Bayram, Ö. D. Akyıldız, Journal of Signal, Image and Video Processing, 2014.
	7. <i>An Analysis Prior Based Decomposition Method for Audio Signals</i> , Ö. D. Akyıldız and İ. Bayram, EUSIPCO 2012.
WORK EXPERIENCE	<i>Research Associate</i> , Carlos III University of Madrid, Spain. 2015 – with Signal Processing Group (GTS). on <i>stochastic filters; stochastic optimisation; Monte Carlo methods</i> .
	<i>Visiting Research Scientist</i> , Fraunhofer HHI, Berlin, Germany. August 2017 on <i>proximal forward-backward splitting methods; sparse dictionary learning</i> .
	<i>Research Assistant</i> , Boğaziçi University, Istanbul, Turkey. 2012 – 2015 under the supervision of A. Taylan Cemgil with Statistical Inference Group. on <i>Bayesian statistics; machine learning; probabilistic inference</i> .
	<i>Quantitative Researcher</i> , algosis inc. 2014 – 2015 on <i>financial time series analysis; portfolio optimization; algorithmic trading</i> .
	<i>Research Assistant</i> , Istanbul Technical University, Turkey. 2010 – 2012 on <i>convex optimisation; machine learning; signal processing</i> .
VISITS & CONFERENCES	SMC 2017 Workshop, Uppsala, Sweden 29/8 – 01/9 2017
	NIPS Conference, Barcelona, Spain. 5/12 – 10/12 2016

	European Workshop on Reinforcement Learning, Barcelona.	3/12 – 4/12 2016
	IEEE Workshop on Statistical Signal Processing, Palma, Spain.	26/6 – 29/6 2016
	School of Mathematical Sciences, Queen Mary University of London, UK.	
	• 14/12 – 24/12 2015 — 1/2 – 5/2 2016 — 16/5 – 20/5 2016	
	Sequential Monte Carlo Workshop, Imperial College London, UK.	21/12 – 23/12 2015
TEACHING EXPERIENCE	<i>Teaching Assistant</i> (Voluntarily), Boğaziçi University, Istanbul, Turkey. 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
SKILLS	MATLAB, C, Python, LaTeX.	
GRADUATE SCHOOLS	<i>Dobbiaco Summer School on Probabilistic Numerics</i> Dobbiaco, Italy.	19/6 - 23/6 2017
	<i>Spring School and Workshop on Volatility Dynamics</i> Bernoulli Center, EPFL, Lausanne, Switzerland.	10/4 - 13/4 2017
	<i>Summer School on Uncertainty Quantification for Applied Problems</i> Basque Center for Applied Mathematics, Bilbao, Spain.	4/7 - 8/7 2016
	<i>Machine Learning Summer School</i> Max Planck Institute of Intelligent Systems, Tübingen, Germany. (accepted with extremely competitive full financial support.)	13/7 - 24/7 2015
	<i>Foundations and Advances in Stochastic Filtering</i> Barcelona, Spain.	22/6 - 26/6 2015
HONORS	• Protel A.Ş. Graduate Fellowship • Istanbul Metropolitan Municipality Undergraduate Fellowship • Premiership Undergraduate Fellowship	2010 – 2012 2005 – 2008 2005 – 2010
TALKS	<i>Talks that I gave.</i> • A Filtering Approach to Stochastic Optimisation, at UC3M • Filtering in high-dimensional spaces, at UC3M • 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 • Learning in Linear Dynamical Systems, at Bogazici	June 6, 2017 November 14, 2016 October 22, 2015 March 31, 2015 November 26, 2013 March 26, 2013 January 21, 2013