Curriculum Vitae		
Personal information		
First name(s) / Surname(s)	CIHAN BILGE / KAYASANDIK	
Address(es)	Istanbul Medipol University, Kavacık Kuzey Kampus, Kavacık, Beykoz,	
	ISTANBUL, TURKEY	
Phone(s)	Mobile:	
E-mail	cbkayasandik@medipol.edu.tr	
Nationality	Turkish	
Date of Birth	14/05/1989	
Gender	FEMALE	
Research/Work Experience		
Dates	From (07/2019)- To	
Name of Institution/Company, City and	Istanbul Medipol University/ Istanbul/Turkey	
Country		
Name of Institute/Department	School of Engineering and Natural Sciences/ Computer Engineering	
Position Held	Assistant Professor	
Main Activities and	Research: morphometric analysis of cells, tree structure extraction methods,	
Responsibilities	machine learning methods application on medical data and image analysis Teaching: Linear Algebra and Differential Equations, Probability and	
	Random Variables, Discrete Mathematics, Introduction to Formal	
	Languages and Automata Theory	
Dates	From (07/2018)- To (07/2019)	
Name of	Istanbul Medipol University/ Istanbul/Turkey	
	School of Engineering and Natural Sciences/ Computer Engineering	
	From (07/2018)- To (07/2019)	

Position Held	Post doctoral Reseacher
Main Activities and Responsibilities	Research: morphometric analysis of cells, tree structure extraction methods, machine learning methods application on medical data and image analysis <u>Teaching</u> : Linear Algebra and Differential Equations, Probability and Random Variables, Discrete Mathematics, Introduction to Formal Languages and Automata Theory
Dates	From (08/2017) – To (06/2018)
Name of Institution/Company, City and Country	The University of Houston/Houston/U.S.A.
Name of Institute/Department	Mathematics Department
Position Held	Postdoctoral Researcher
Main Activities and Responsibilities	<u>Research</u> : morphometric analysis of cells, tree structure extraction methods, machine learning methods application on medical data and image analysis
Career Breaks	
Reasons for Interrupting Career	
Overseas Experience (if applicable)	The University of Houston/Houston/U.S.A. as Postdoctoral Researcher [From (08/2017)-To (06/2018)] The University of Houston/Houston/U.S.A. as Teaching Assistant for Calculus I, II & III [From (08/2012)-To (08/2017)]
The total duration of time spent on research	□ < 4 years
Academic Profile and Fellowship Period	
Dates	From (08/2012) – To (09/2017)
Title of qualification awarded	Ph.D.
Name of Institution, /City and Country	The University of Houston/Houston/U.S.A.
Name of Faculty/Department/Major	Mathematics Department
Research area(s)	Medical Image Analysis, Harmonic Analysis, Pattern Recognition
Title of thesis/dissertation (if applicable)	
	Geometric Multiscale Analysis and Applications to Neuroscience Imaging
Thesis/dissertation advisor(s)	
Thesis/dissertation advisor(s) Grade obtained	Geometric Multiscale Analysis and Applications to Neuroscience Imaging
()	Geometric Multiscale Analysis and Applications to Neuroscience Imaging Prof. Demetrio Labate
()	Geometric Multiscale Analysis and Applications to Neuroscience Imaging Prof. Demetrio Labate
Grade obtained	Geometric Multiscale Analysis and Applications to Neuroscience Imaging Prof. Demetrio Labate 3.67/4.00

Name of Faculty/Department/Major	Mathematics Department		
Research area(s)	Harmonic Analysis, Nu	Imber Theory	
Title of thesis/dissertation (if applicable)			
Thesis/dissertation advisor(s)			
Grade obtained	3.31/4.00		
Personal skills and			
competences			
Mother tongue(s)	Turkish		
Other language(s)	English, French (begin	ner)	
Self-assessment in English	Understanding	Speaking	Writing
Level (poor, fair, good, very good, excellent)	excellent	excellent	excellent
Social skills and			
competences		High School Folk Music S	
		[·] Turkish Music Society, vi Turkish Music Society, vic	
		nity Volunteers Foundatio	
		Jniversity Photography Cl	
Institutional skills and			
competences			
Technical skills and			
competences			
Computer skills and	Computer languages: M	IATLAB, Python, Java, R,	LATEX. Microsoft Office
competences			
	Cell Analysis tools: Ima	ne.l Fiii Vaa3d	
	<u> </u>	gee,j.,	
Awards and honours	National Scholarship for 2012	r Undergraduate Students	— TUBITAK Sep 2007–Aug
	Undergraduate Student	Scholarship — Bilkent Ur	niversity Sep 2007–Aug 2012
	Graduate Student Scho	larship — University of Ho	ouston Aug 2012- present

Publications	 J. Di Re, C. Kayasandik, G. Botello-Lins, D. Labate, and F. Laezza, "Imaging of Axon Initial Segment." Current Protocols in Neuroscience 89, no. 1 (2019): e78
	 C. Kayasandik, K. Guo, and D. Labate, "Directional multiscale representations and applications in dig- ital neuron reconstruction" Journal of Computational and Applied Mathematics, 2018
	 C. Kayasandik, P. Negi, F. Laezza, M. Papadakis, and D. Labate "Automated sorting of neuronal trees in fluorescent images of neuronal networks using NeuroTreeTracer", Scientific reports, 8, 2018
	 W. C. J. Hsu, P. Negi, M. N. Nenov, T. F. James, C. Kayasandik, A. Limon, F. Laezza (2017, November). "Akt Dysfunction Leads to Structure- Function Changes in the Voltage-Gated Na plus Channel Complex at Axonal Initial Segment That Mimic Endophenotypes Associated With Schizophre- nia" In NEUROPSYCHOPHARMACOLOGY (Vol. 43, pp. S224-S225)., ENGLAND: NATURE PUBLISHING GROUP.
	 C. Kayasandik and D. Labate, "Improved detection of soma location and morphology in fluorescence microscopy images of neurons", Journal of Neuroscience Methods, 2016
Research Projects	Electrical Modelling of Neurons, as researcher, PI: Demetrio Labate

Conferences and	Conferences:
Workshops	 Automated Sorting of Neuronal Trees in Fluorescent Images of Cultured Neurons Using NeuroTreeTracer Poster presentation at 16th Annual GCC Conference on Theoretical and Computational Neuroscience, Auditorium BioScience Research Collaborative, Rice University, 2019.
	 A Multiscale Geometric Descriptor for the Automated Extraction of Somas in Fluorescent Images of Neurons Poster presentation at 14th Annual GCC Conference on Theoretical and Computational Neu- roscience, Auditorium BioScience Research Collaborative, Rice University, January 2017.
	 A Multiscale Geometric Descriptor for the Automated Extraction of Somas in Fluorescent Images of Neurons Poster presentation at 15th Annual GCC Conference on Theoretical and Computational Neu- roscience, Auditorium BioScience Research Collaborative, Rice University, January 2018.
	 A Multiscale Geometric Descriptor for the Automated Extraction of Somas in Fluorescent Images of Neurons Poster presentation at FFT 2016, Norbert Wiener Center at U Maryland College Park, February 2016. (fully-funded)
	Workshops:
	 Mathematical and Numerical Methods in Image Processing, 2016 Summer School, Berlin Mathematical School, 25 July-5 August 2016. (fully-funded)
Professional Memberships	•
Other Professional	
Activities	