

Serkan Shentyurk (Şentürk)

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[LinkedIn](#)
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EDUCATION	University College London (UCL) , London, UK <i>PhD</i> , Optical Biology	2024 - Present
	KU Leuven , Flanders, Belgium <i>MSc</i> , Statistics and Data Science Honour: <i>cum laude</i>	2022 - 2024 cGPA : 14.1/20.0
	Bilkent University , Ankara, Turkey <i>BSc</i> , Molecular Biology and Genetics Honour: <i>Summa cum laude</i>	2018 - 2022 cGPA : 3.8/4.0
EXPERIENCE	Research Assistant 2023 – 2024 Application of computational methods to the neuroscience problems. <ul style="list-style-type: none">• Applied machine learning models to derive mechanistic insights about the pyloric network in response to perturbations.• Modelled and simulated E-I network models to explain the experimental data.	NERF - Gonçalves Lab
	Research Assistant 2022 Building GUI with R Shiny for High-throughput Analysis of Measured Sequential Images application	Bilkent University - Konu Lab
	Research Assistant 2021 - 2022 Exploratory Analysis of Zebrafish behaviour data by applying different Linear Models	Bilkent University - Kafaligonul Lab
	Tutor 2021 Fall Tutored, guided students and answered questions at CS115 - 'Introduction to Programming in Python' course laboratory sessions.	Bilkent University - CS Department
	Research Assistant 2021 Summer Research the effects of water deprivation, size stimulus, and longitudinal imaging on retinotopy. <ul style="list-style-type: none">• Performed skull-clearing surgeries and post-surgery care.• Did wide-field Ca++ imaging and analyzed the images.• Prepared the pipeline for image analysis for further research.	NERF - Bonin Lab
	Research Assistant 2020 Summer Did mice handling, post-surgery care, and behavioural training.	NERF - Bonin Lab
	Student Intern 2019 Summer Handled and crossed <i>Drosophila</i> , performed dissection and IHC.	Bogazici University - Fuss Lab

HONOURS & ACCOLADES	Wellcome PhD Studentship	2024 - 2028
	KU Leuven - Peter Rousseeuw Scholarship	2022 - 2024
	Erasmus+ Student Mobility for Traineeships Program	2021
	Scientific Research Council of Turkey - Undergraduate Scholarship	2020 - 2022
	Bilkent University - Comprehensive Undergraduate Scholarship	2018 - 2022
	Tan College - High School Full Scholarship	2012 - 2016
SKILLS	Laboratory Skills:	
	Handling with <i>Drosophila</i> and mice, Skull Clearing Surgery and Behavioral Tests with mice, Wide-field Ca++ imaging.	
	Languages:	
	Python, R (proficient), SAS (intermediate), SQL, HTML/CSS, MATLAB, Cypher (familiar).	
EXTRA-CURRICULAR ACTIVITIES	Statistics - Data Science:	
	Generalised Linear Models, Multivariate Statistics, Time-Series Analysis, Autoregressive Models, Wavelet Analysis, Data Mining, Data Scraping, Exploratory Analysis, Decision Trees, SVMs, Feedforward Neural Networks (proficient), Reinforcement Learning, Mixed Models, Meta-Analysis (familiar) Dashboarding (Plotly Dash, Streamlit, Stackblitz, R Shiny).	
	Positions:	
	• Vice President , Bilkent Genetics Society	2019 - 2020
	Bilkent University	
	• Head of International Career , Scientific Research Society	2017 - 2018
	Hacettepe University	
	• Volunteer , Turkish Foundation for the Protection of Nature	2014 - 2022
	Activities:	
	• Co-organiser , ‘Horizons in Molecular Biology and Genetics’ and ‘Neuroscience Days’ at Bilkent University.	
	• Organiser , ‘Medical Residency in the US and Germany’ conferences at Hacettepe University.	
LANGUAGES	Sports:	
	• Basketball , played at high school team and amateur club (1 Bronze, 1 Silver, 4 Gold medals).	
	• Ice Hockey , team member of Hacettepe University Ice Deers.	
LANGUAGES	Turkish (native), English (fluent), Bulgarian (beginner), German (beginner).	
REFERENCES	Pedro Gonçalves, PhD:	
	NeuroElectronics Research, Flanders (NERF) - Leuven, Belgium	pedro.goncalves@nerf.be
	Aslı Ayaz, PhD:	
	NeuroElectronics Research, Flanders (NERF) - Leuven, Belgium	asli.ayaz@nerf.be
	Özlen Konu, PhD:	
	Bilkent University - Ankara, Turkey	konu@fen.bilkent.edu.tr
REFERENCES	Vincent Bonin, PhD:	
	NeuroElectronics Research, Flanders (NERF) - Leuven, Belgium	vincent.bonin@nerf.be