GEORGIOS GRYPARIS

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Education

PhD Biomedical Engineering, Imperial College London **Oct 2020 – Present**

- Novel techniques for Adaptive Neuromodulation: Funded PhD position in the department of Bioengineering (supervisor: Prof. Drakakis) with a focus on Deep Brain Stimulation (a surgical procedure where the brain is stimulated through implanted electrodes to treat Parkinson's disease and other neurological disorders)
- Projected Research Outcomes
  - A high-precision, versatile, handheld instrument to record/process neural signals (Prototype: May 2021)
  - An algorithm to extract features from acquired neural data and adapt stimulation parameters in real time
  - Preliminary testing on primates; after regulatory approval, participation in small scale clinical trial

MEng Biomedical Engineering (1st Class), Imperial College London **Sep 2016 – Jun 2020**

- Awards: 2nd in class of 92 (Overall Grade: 81%) – Top 10% of Cohort (Dean's List) in Years 1, 2 and 4
- Computational Project: Algorithm to predict hand trajectory from primates' real-time neural recordings
- Electrical Engineering Project: MEng thesis on a novel method for artefact suppression during Deep Brain Stimulation (designed and tested a device for recording brain activity while the brain is actively stimulated)
- Design Project: Smart baby buggy for visually impaired parents developed through collaboration with a local visual awareness training service (personally implemented ultrasound-based obstacle detection system)
- Business Modules: Finance & Financial Management; Project Management

BSc Mathematics (3rd Class), Imperial College London **Sep 2009 – Jun 2013**

International Baccalaureate (40/45), Moraitis School Athens **Sep 2007 – Jun 2009**

Work Experience & Research Placements

Graduate Teaching Assistant – Imperial College London **Oct 2020 – Present**

- Lead study groups for the second year "Signals and Control" module (Class size: 30)
- Ran second year MATLAB & Simulink sessions (Class size: 30; supported by an undergraduate assistant)
- Marked final exam papers for the "Signals and Control" module

Undergraduate Teaching Assistant – Imperial College London **Feb 2018 – Jun 2020**

- Developed control engineering teaching materials and assisted in electrical engineering lab sessions

International Undergraduate Researcher – MIT (Bryson Lab) **Jul 2019 – Aug 2019**

- Funded placement (IROP Bursary) on data analysis for single cell RNA sequencing experiments
- Benchmarked machine learning pipelines for cell classification from transcriptomic data

Undergraduate Researcher – Imperial College (BIOCAS group) **Jul 2018 – Aug 2018**

- Funded placement (UROP Bursary) on low-power design for measurement of bioelectric signals

Undergraduate Research Assistant – Imperial College (Dickinson Lab) **Jul 2017 – Aug 2017**

- Assisted in developing an impedance-based solution to positioning a vascular catheter

Private Tutor – Freelance **Aug 2013 – Oct 2014 & Aug 2015 – Aug 2016**

- Full time mathematics and physics private tutor in Athens, Greece
- Prepared students for the IB and Panhellenic university entry exams individually or in groups of up to five

Additional Information

- Programming Languages: MATLAB, Python, C, C++, R
- Design Software: Altium Designer, Simulink, OrCAD PSpice, TINA, LTspice
- Microsoft Office (Word, Excel, Power Point), LaTeX
- Language skills: Fluent English (C2), Intermediate French (B2), Intermediate German (B1), Native Greek
- Completed compulsory military service (November 2014 – July 2015)