Katerina Capouskova

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Work

2017	**Machine Learning Researcher, Spaceknow Inc.**	Prague, Czech Republic

Dr. Michal Reinstein Research Team
Deep learning in Keras, Tensorflow, and Tflearn on satellite imagery to detect various features, data analysis, trading indexes predictions based on satellite imagery

2016	**Data Analyst/Expert Advisor, eVision Optik, s.r.o.**	Prague, Czech Republic

Translated Czech-English: ophthalmology, presentations, data analysis, and advisory in vision impairment through neuroscientific framework

2016	**Volunteer, Czechitas**	Prague, Czech Republic

Instructing children (age 7-17) to build algorithms in KODU environment developed by Microsoft, workshops and summer camp

Laboratory Experience

2020	**Head of Laboratory, GenDet Laboratory, COVID-19 section**	Prague, Czech Republic

Weekend and night shift lead of SARS-CoV-2 testing team performing real-time PCR. People leadership, communications with other lab departments (administration, sampling points, IT), material orders, shifts assignments, communication with Government entities (Public Health Department, Army, and municipalities). Also led a custom IS/IT implementation responsible for a whole PCR test workflow, including automated communication back to citizens

2017	**PhD Thesis Research, UPF**	Barcelona, Spain

Prof. Gustavo Deco's Computational Neuroscience Group
Funding: HBP SGA3 Human Brain Project Specific Grant Agreement 3 (grant agreement no. 945539), funded by the EU H2020 FET Flagship programme

EEG and fMRI data analysis, computational modelling, Python computational graph building

2015	**Research Assistant, Na Homolce Hospital**	Prague, Czech Republic

Laboratory of Molecular Diagnostics
DNA processed and analysed by PCR, LightScanner, Agarose gel, DNA quantification by spectrophotometry, SPSS, Excel

2014	**MSc. Research Project, King's College London**	London, UK

Dr. Geoff Bird's Social Neuroscience Laboratory
Participants recruitment, consent and screening providing, tDCS stimulation, data analysis using SPSS, basic MatLab and E-prime control

Education: Degree Granting

2017	**Universitat Pompeu Fabra, Computational Neuroscience Group**	Barcelona, Spain

Ph.D.: Computational Neuroscience
Thesis Title: *Temporal and spatial patterns differences of basal brain states and cognitive brain states.*

2014   **King's College London, Institute of Psychiatry**   London, UK
Master of Science: Neuroscience (with Merit)
Module: Psychiatric Genetics, Project: *The Role of the Right Temporoparietal Junction in Social Cognition: A Transcranial Direct Current Stimulation Study*.

2013   **The London School of Economics and Political Science**   London, UK
Master of Science: **Philosophy of Science**
Dissertation title *'How Do We Understand the Behaviour of Others?' Simulation Considered from the Perspective of Self-consciousness as a Theoretical Cognitive Discipline'* with focus on social cognition in the overall dynamic embodied cognition theory.

2012   **Masaryk University in Brno**   Brno, Czech Republic
Bachelor of Arts: **Journalism, Media Studies and Gender Studies**
Dissertation title *Body and Embodiment in the work of Frida Kahlo analysed through gender theory of Iris Marion Young* with focus on bodily self-image of women.

2007   **Gymnazium Jana Keplera**   Prague, Czech Republic
High School Diploma: **General**

Education: Non-Degree

2019   **CNeuro: International Summer School and Workshop in**   Beijing, China
Theoretical and Computational Neuroscience at Tsinghua University

2019   **Ibro-Simons Computational Neuroscience Imbizo Summer Sch.**   Cape Town, South Africa

2016   **General Assembly Data Science Immersive Course**   San Francisco, CA, USA
SQL, Git, UNIX, Python and Data Analysis, Machine Learning, Visualization, R

2016   **Model-based Neuroscience Summer School**   Amsterdam, NL

2015   **Computational Neuroscience by Uni of Washington Coursera**   Prague, Czech Republic

2012   **Charles University in Prague**   Prague, Czech Republic
Non-degree 180ECTS: **Aesthetics**
Specialization in cognitive function of aesthetic experience with focus on the impact on self-representation.

2010   **Copenhagen University**   Copenhagen, Denmark
Erasmus Exchange Programme: **Philosophy and Cognitive Science**
Module specialization in embodied and embedded cognition and philosophy of mind.

2010   **Harvard Extension School**   Cambridge, MA, USA
Summer School: **Philosophy, Psychology**
Courses in philosophy of mind and introduction to psychology.

2005   **Harvard Extension School**   Cambridge, MA, USA
Secondary School Summer Program: **Principles of Economics**

Conferences

Capouskova K., Kringelbach M., Deco G. (2019, June). *Spatiotemporal characteristics of functional connectivity brain states in rest and cognitive tasks*. Poster session presented at the European Neuroscience Conference by Doctoral Students (FENS), Francis Crick Institute, London, UK.

Capouskova K. (2013, April). *Can the situated cognitive loop hypothesis be supported by the notion of self-consciousness?*'. Response talk presented at the King's College London Graduate Conference in Philosophy of Mind and Psychology, London, UK.

Publications

1. Capouskova, K ., Kringelbach, M.L. & Deco, G. Modes of cognition: Evidence from metastable brain dynamics. *Neuroimage* **260**, 119489 (2022). doi: 10.1016/J.NEUROIMAGE.2022.119489

2. Vila-Vidal, M., Capouskova, K., Atasoy, S., Kringelbach, M. L. & Deco, G. Uncovering the spatiotemporal scales of common neuro-mental constructs. *Phys. Life Rev.* (2019). doi:10.1016/j.plrev.2019.10.004

Programming Courses

February 2016: 'I am making a web' – 1 day HTML/CSS workkshop, Czechitas, Prague, CZ

April 2016: 'Introduction to C#' - 1 day workshop, Czechitas, Hradec Kralove, CZ

April – June 2016: 'Python Course' – 3 months course, PyLadies, Prague, CZ

April 2016: 'Data Girls' – 1 day workshop, Czechitas, Prague, CZ (Power BI, Tableau, Good Data)

Other Qualifications

Boat Skipper 2007, Tennis trainer 2005, Tennis referee level B 2005, Driving license 2005, Open Water Diver 2003

Extra-Curricular Activities

- Member of the Cognitive Science Society since 2013
- Tate gallery member since 2013
- Member and co-organizer: LSE Czech and Slovak Society & University of London Society (2012-2013)
- Chief Organizer of annual 'Symposion' conference at GJK (2006, 2007)
- First place winner (twice) with designs implemented for Graduation Ball invitation at Gymnazium Jana Kepler (2005, 2007)
- Part of Broader National Czech Ski Team (2002-2004), FIS Federation
- Yoga lover, Arendt worshipper, and beer adorer

Languages

Czech Native, English Proficient, German Intermediate, Spanish Intermediate, Danish Elementary

Google Scholar https://scholar.google.com/citations?user=aFG8E_AjMZ4C&hl=en