Joey (Zoe) Stawyskyj

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I completed my doctoral studies in theoretical and computational neuroscience at Göttingen University, Germany. Extensive experience in teaching, particularly in student supervision and remote learning solutions coupled with an interest in ensuring accessible and inclusive learning. Organisational roles including of conferences and retreats. Current research work presented at numerous conferences. Considerable engagement with extra-curricular opportunities including writing the newsletter for the graduate program.

EDUCATION

PhD (Theoretical and Computational Neuroscience)
Georg-August-Universität Göttingen

October 2021 – December 2024

Thesis Topic - I aim to understand the Convergent Evolution of the Form Vision Core Circuit. I study spatial organisation and optimisation of orientation preference maps.
PhD Program: Theoretical and Computational Neuroscience (PTCN in GGNB)
Faculty: Physics
Supervisor - Fred Wolf

Bachelor Advanced Science (Honours in Physics)
The University of Sydney

March 2015 - July 2019

Thesis Topic - Memory Retrieval in Recurrent Neural Networks
Details - One year of research and coursework. 30-minute presentation and a 40-page thesis.
Supervisor - Pulin Gong
Mark - First Class

RESEARCH EXPERIENCE

Summer Research Scholarship - University of Sydney, Complex Systems Group, Sydney

December 2017 - March 2018

Project - To reproduce a recurrent neural network model of the CA3 sub-region of the hippocampus.
Supervisor - Pulin Gong

WORK

Researcher at Georg-August-Universität Göttingen

March 2021 – June 2025, Type - Employment

I was employed at the Göttingen Campus Institute for Dynamics of Biological Networks (CIDBN) as a physicist working in the field of theoretical neuroscience modelling and doing data analysis for orientation encoding in the mammalian primary visual cortex.

Tutor at The University of Sydney Faculty of Engineering and Computer Science

August 2019 – 2021, Type - Employment

I was tutoring DATA1002 and DATA1902 - Introduction to data science. The course involves the teaching of python, excel, UNIX and bash coding.

Demonstrating at The University of Sydney Faculty of Science

August 2019 – 2021, Type - Employment

I was demonstrating in a first year Physics laboratory. The content covers circuits and student projects

Youth with Disabilities Career

2016 – 2021, Type - Employment

I worked as a career for teens with disabilities providing practical support and socialisation.

United Nations Youth Australia

2014-2018, Type - Volunteering

United Nations Youth NSW Secretary, December 2014 - December 2015
United Nations Youth NSW Director of Communications, December 2015 - December 2016
United Nations Youth NSW President, December 2016 - December 2017
United Nations Youth Australia Middle East Experience Deputy Convenor, December 2016 - December 2017
United Nations Youth Australia Timor Leste Project Deputy Convenor, December 2016 - December 2017
United Nations Youth Australia Chief International Operations Officer, December 2017 - December 2018
United Nations Youth Australia Emerging Leaders Program Convenor, December 2017 - December 2018

United Nations Youth Australia is the largest youth run organisation in Australia. My roles and responsibilities with the organisation included, the creation and delivery of content on international relations and human rights for and to high school students, the legal compliance and welfare supervision of the organisation, the creation and dissemination of communication, the management of an executive team of 10 individuals and a wider volunteer base of 150 people, the convenorship and participation in international tours, the oversight of all international tours including the management of convenors, ensuring child safety compliance and minimising financial risk to the organisation and representing the organisation to external agents.

CONFERENCE PRESENTATIONS

Presentations

FENS 2024 SPP2205 Satellite Event
Australasian Council for Undergraduate Research 2019

Posters

SfN 2024
FENS 2024
Bernstein 2023, doi: 10.12751/nncn.bc2023.042, doi: 10.12751/nncn.bc2023.134, doi: 10.12751/nncn.bc2023.193
Bernstein 2022, DOI: 10.12751/nncn.bc2022.269, doi: 10.12751/nncn.bc2022.119
FENS 2022
Bernstein 2021: 10.12751/nncn.bc2021.p156

Skills

Languages: English (native), Ukrainian (C1), German (B2)
Programming Languages: MATLAB, Python, Julia, C++, R
Adobe Creative Cloud: Photoshop, InDesign