Urszula Włodkowska

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Education

Academic Qualifications

○ **Nencki Institute of Experimental Biology**   **Warsaw**
  PhD Student at the Laboratory of Spatial Memory   *2019–ongoing*

○ **University of Warsaw, Faculty of Physics**   **Warsaw**
  Master's Degree in Applications of Physics in Biology and Medicine   *2016–2018*

○ **University of Warsaw, Faculty of Mathematics, Informatics, and Mechanics**   **Warsaw**
  Bachelor's Degree in Mathematics   *2010–2011, 2014-2016*

○ **Stanislaw Staszic 14 Secondary School in Warsaw**   **Warsaw**
  Experimental programme in Mathematics   *2007–2010*

Internships

○ **Nencki Institute of Experimental Biology PAS**   **Warsaw**
  Laboratory of Spatial Memory   *March 2018 - November 2018*

○ **Warsaw Medical University**   **Warsaw**
  Magnetic Resonance Imaging Laboratory, II Department of Clinical Radiology in Warsaw   *September 2017*

Attended courses

○ Kavli Institute for Systems Neuroscience Summer School on Mathematical Methods in Computational Neuroscience (2021)

Notable Projects

○ **Masters Project:** *'Sleep staging using photoplethysmographic signals'*

○ **Main project during internship at Nencki Institute of Experimental Biology:** *'Automatization of rat and mouse T-maze using visual cues'*

○ **Project from Faculty of Physics Hackathon, continued as Student Group Project:** *'Automatization of detection of alpha particle traces in images from Optical Time Projection Chamber'*

Extracurricular activities

○ Organizer and TA (Python, Arduino, electronics) at the Nencki Open Lab (2019 - ongoing)

○ Co-host of Transatlantic Systems Neuroscience Seminars (2020 - ongoing)

○ Co-host of an online symposium Preprogrammed: Innateness in Neuroscience and AI (September 9th 2021)

○ Teaching Assistant at the Nencki Open Lab Summer School (2019)

Previous Employment

Nencki Institute of Experimental Biology PAS   **Warsaw**
Technician   *November 2018–March 2019*

Cardio Technology Sp z o. o.   **Warsaw**
Python Developer   *June 2018–December 2018*

Execon ITS   **Warsaw**
Java and IBM Integration Bus Developer   *July 2015–September 2017*

Qualent   **Warsaw**
Java and Web Developer   *July 2014-December2014*

Innotion Sp. z o.o.   **Warsaw**
Java and Web Developer   *July 2012-September 2013*

Achievements

- **Part of the winning team during MedHack - first medical hackathon organised by University of Warsaw Business Incubator** - 2018
- **Finalist of Polish Mathematical Olympiad** - 2010 & 2009
- **Bronze Medal in International Young Physicists' Tournament in Tianjin** - 2009
- **Second place in Polish eliminations for Young Physicists' Tournament** - 2008

Technical and Personal skills

- **Programming Languages:** Proficient in: Java, Python, SQL
  Intermediate ability with: Matlab, JavaScript, C, C++.
- **Scientific Software Skills:** Bonsai, Arduino, ImageJ (Proficient), Matlab (Intermediate), Most MS Office products (Advanced).
- **Laboratory experience:** Authorized to work with laboratory animals, experienced in stereotaxic surgery on mice, well-versed in confocal, widefield and multiphoton microscopy.
- **General Skills:** Good presentation skills, Works well in a team.
- **Languages:** Polish (First language), English (C1), Portuguese (A2), German (A2).