Olga Petrovska, SFHEA

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Employment

2022 – ····		**Head of Final Year** at Computer Science Department, Swansea University, UK
2020 – ····		**Teaching Fellow** at Computer Science Department, Swansea University, UK
2020 – 2024		**Technology Consultant** and **Project Manager** at Ukraïner.net, remote (*part-time*)
2016 – 2020		**Teaching Assistant** at Swansea University, UK (*part-time*)
2013 – 2015		**Project Manager / Team Leader** at Wolfestone, Swansea, UK
2010 – 2012		**Web Production Lead / Internal Relationships Leader** at IBM, Bratislava, Slovakia

Positions of Responsibility and Community Service

2025 – ····		**Program Committee Member** for the Continuity, Computability, Constructivity conference (CCC 2025)
2024 – ····		**Reviewer** for the several international journals (Frontiers in Education, Information and Software Technology, and IEEE Access) and conferences (OpenEd25, ITP'25, and BCSWomen Lovelace Colloquium)
2023 – ····		**Council Member** at the Association of Computability in Europe
		Project Support Officer at the UK-Ukraine Academic Mentorship Scheme
2022 – 2023		**Member** of the Disciplinary Commons in Theoretical Computer Science
2020 – ····		**Treasurer** at the British Colloquium for Theoretical Computer Science

Education

2016 – 2021		**Ph.D., Computer Science**, Swansea University, UK Thesis: *Enhanced Realizability Interpretation for Program Extraction*
2015 – 2016		**M.Sc., Computer Science**, Swansea University, UK Thesis: *Prawf: Interactive Proof Assistant for Predicate Logic*
2006 – 2007		**Master's Degree, Philology**, Chernivtsi National University, Ukraine Thesis: *The Functional-Semantic Field of Quantity in John Fowles' Discourse*
2002 – 2006		**Bachelor's Degree, Pedagogy**, Ternopil National Pedagogical University, Ukraine

Secondments and Residences

Jul-Aug. 2018		**Residence** at the Hausdorff Trimester Program (Hausdorff Research Institute for Mathematics, Germany)
Mar-Apr. 2018		**Secondment** at the Mathematical and Information Sciences Division of the Human and Environmental Studies Faculty (Kyoto University, Japan)
Mar-May. 2017		**Secondment** at the School of Mathematics and Statistics (University of Canterbury, New Zealand)

Publications

Conference Proceedings

1 O. Andrei, S. W. Nabi, M. Barr, and O. Petrovska, "Integrating socially responsible computing competencies in computer science and software engineering education," in *Proceedings of the 9th Conference on Computing Education Practice*, Durham United Kingdom: ACM, Jan. 2025, pp. 36–37. 🔗 DOI: `10.1145/3702212.3702225`.

2 L. Clift and O. Petrovska, "Learning without limits: Analysing the usage of generative AI in a summative assessment," in *Proceedings of the 9th Conference on Computing Education Practice*, Durham United Kingdom: ACM, Jan. 2025, pp. 5–8. 🔗 DOI: `10.1145/3702212.3702214`.

3 O. Petrovska, R. Pearsall, and L. Clift, "Assessing software engineering students' analytical skills in the era of generative AI," in *Proceedings of the 9th Conference on Computing Education Practice*, Durham United Kingdom: ACM, Jan. 2025, pp. 34–34. 🔗 DOI: `10.1145/3702212.3702223`.

4 O. Petrovska, L. Clift, F. Moller, and R. Pearsall, "Incorporating generative AI into software development education," in *Proceedings of the 8th Conference on Computing Education Practice*, ser. CEP'24, Durham, United Kingdom: Association for Computing Machinery, 2024, pp. 37–40, ISBN: 9798400709326. 🔗 DOI: `10.1145/3633053.3633057`.

5 O. Petrovska, L. Clift, and F. Moller, "Generative AI in software development education: Insights from a degree apprenticeship programme," in *Proceedings of the 2023 Conference on United Kingdom & Ireland Computing Education Research*, ser. UKICER'23, Swansea, Wales UK: Association for Computing Machinery, 2023, ISBN: 9798400708763. 🔗 DOI: `10.1145/3610969.3611132`.

6 U. Berger, O. Petrovska, and H. Tsuiki, "Prawf: An interactive proof system for program extraction," in *Beyond the Horizon of Computability*, M. Anselmo, G. Della Vedova, F. Manea, and A. Pauly, Eds., Cham: Springer International Publishing, 2020, pp. 137–148, ISBN: 978-3-030-51466-2.

7 U. Berger and O. Petrovska, "Optimized program extraction for induction and coinduction," in *Sailing Routes in the World of Computation*, F. Manea, R. G. Miller, and D. Nowotka, Eds., Cham: Springer International Publishing, 2018, pp. 70–80, ISBN: 978-3-319-94418-0.

Other

1 O. Petrovska, *Course Portfolio on Algorithms and Automata (Apprenticeship)*, 2024. 🔗 DOI: `10.5281/zenodo.14448266`.

2 O. Petrovska, *Enhanced Realizability Interpretation for Program Extraction*, 2021. 🔗 DOI: `10.23889/suthesis.57831`.

Talks

- **The Art of Teaching Theory Across Diverse Backgrounds** at the British Colloquium for Theoretical Computer Science 2025 (14-16.04.2025, University of Strathclyde, Glasgow, Scotland)

- **GenAI in Education and Research** at the NAIADES (Network for Artificial Intelligence, the Arts, the Digital Economy and Society) Workshop "GenAI: Use and Best Practices" (20.02.2025, Swansea University, Wales)

- **Computer Science Outreach in Higher Education: Challenges and Opportunities**, co-presented with Megan Venn-Wycherley (08.01.2025, Durham University, England)

- **Developing Students' Critical Skills in the AI-enabled World** at the Advance HE Assessment and Feedback Symposium 2024 (05.11.2024, online)

- **Generative AI and Conversations with Your Students** at the Lunch and Learn Webinar of the Swansea Academy of Learning and Teaching, co-presented with Lee Clift (22.10.2024, online)

- **Student vs AI** at the Learning and Teaching Enhancement Centre (LTEC) Conference "GenAI: Challenges and Solutions" (18.09.2024, Swansea University, Wales)

- **Operational Semantics in Prawf** at the Workshop on Proof and Computation 2022 (01.06.2022, Kloster Schlehdorf, Germany)

- **Intuitionistic Fixed Point Logic and Program Extraction** at the Workshop on Continuity, Computability, Constructivity 2018 (24-28.09.2018, University of Algarve, Faro, Portugal)

- **Natural Language Proofs for Program Extraction** at the International Workshop on Proof, Computation, Complexity 2017 (26-27.07.2017, University of Göttingen, Germany)

- **Natural Language Proof Checking in Predicate Logic** at the Workshop on Proofs, Programs, and Verification (19.04.2017, University of Canterbury, Christchurch, New Zealand)

Teaching Experience

2021 – · · · ·	Design and delivery of **CSF302 Project Planning and Management**
	Design and delivery of **CSF206 Algorithms and Automata**
	Design and delivery of **CSF107 Professional Issues of Software Engineering**
	Coordination of final year project modules: **CSF301 Project Specification and Development** and **CSF300 Project Implementation and Dissertation**
2021 – 2025	Designed and delivered a range of short courses and workshops for teachers, college students, and general public on **AI, Cyber Security, Graphic Design, Web Development, Excel**, and other.
2022 – 2023	Delivered **CSB100MC Computational Thinking**
	Delivered **CSB300MC Software Engineering Project Management**
	Led tutorials for **CS-175 Modelling Computing Systems 2**
	Delivered components of **CSC301/CSCM01 Software Engineering Project Planning and Management**
2021– 2022	Delivered components of **CSF399 Human-Computer Interaction**
2020 – 2021	Delivered components of **CSF207 Computer Security**
	Delivered **CSF106 Discrete Mathematics for Computer Science**
2016 – 2020	Provided support with labs, tutorials and assessment in a variety of CS modules Provided teaching assistance at labs, tutorials and marking for **CS-205 Declarative Programming**, **CSCM13 Critical Systems**, **CSCM75 Logic in Computer Science**, **CS-275 Automata Theory and Formal Languages**, **CS-081 Introduction to Algorithms and Data Structures**.

Event Organisation

Sep 2025	**CCC 2025** (Continuity, Computability, Constructivity) (upcoming) – Local organiser[1]
March 2025	**UK-Ukraine Research Twinning Showcase Event 2025** at the Liverpool University – Co-organiser
Jul 2024	**CCA 2024** (International Conference on Computability and Complexity in Analysis) – Local organiser

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[1]All conferences/events organised at Swansea University, unless stated otherwise.

Event Organisation (continued)

May 2024	■	**Agda Implementors' Meeting XXXVIII** – Local organiser
Sep 2023	■	**UKICER 2023** (UK and Ireland Computing Education Research) – Local organiser
Jul 2022	■	**CiE 2022** (Computability in Europe: Revolutions and Revelations in Computability) – Local organiser
Apr 2022	■	**BCTCS 38** (British Colloquium for Theoretical Computer Science) – Co-chair
Apr 2020	■	**BCTCS 36** online conference – Local organiser
Sep 2019	■	**2nd International Summer School on Proof Theory** and **Workshop on Proof Theory and its Applications** – Local organiser

Languages

Native or bilingual proficiency	■	English, Ukrainian, Slovak, Russian
Limited working proficiency	■	German, Polish
Elementary proficiency	■	Welsh, Mandarin Chinese