

DOMINIKA WOSZCZYK

@ dcw19@ic.ac.uk
https://www.dominikawoszczyk.com

+447763637322

in [linkedin.com/in/dominika-woszczyk/](https://www.linkedin.com/in/dominika-woszczyk/)

github.com/domiwk/

EDUCATION

PhD in Computing

Imperial College London

2019- present London, UK

- Lab : APlications and Systems Security.
- Topic: Security & voice services.
- Supervisor: Soteris Demetriou.

MSc. Artificial Intelligence

University of Southampton

2018-2019 Southampton, UK

- Distinction
- Thesis : Robust Speech Recognition for Dysarthric Speech and Accented speech. Published at Interspeech 2020.
- Some of the modules included : Deep Learning, Evolution of Complexity, Biometrics, Advanced Machine Learning, Intelligent Agents.

BSc. Knoweldge Engineering and Data Science

Maastricht University

2015-2018 Maastricht, The Netherlands

- 7.74
- Thesis : MaaSim, a Liveability Simulation For Improving The Quality Of Life In Cities. Published at SoGood2018, ECMLPKDD.
- Some of the modules includes: Cognitive Psychology, Machine Learning, Robotics, Bioinformatics, Data Structures, Numerical Mathematics, Graph Theory, Calculus, Computer Science, Linear Programming, Probability and Statistics.

WORK EXPERIENCE

Applied Scientist Intern

Amazon

October 2021 - April 2022 Cambridge, UK

- Joined the Alexa-TTS group and worked on non-parallel style Transfer during voice conversion. The work resulted in a paper to be submitted to ICASSP 23'.

Teaching Assistant

Imperial College London

2020 - 2021 London, UK

- Advanced Security course (Autumn Term).
- Natural Language Processing course (Winter Terms).

Student Consultants

KKFE, University of Southampton

2019 Southampton, UK

- Part of the Business Innovation Program, a 6 weeks team project providing consultancy to a non-profit organisation.

AWARDS

Best Poster Award

06.2022 Imperial College London, UK

Winner of the Late Stage Review poster competition and recipient of a total of 200 pounds.

WiML @ ICML 2021 Travel Grant

2021 Women In Machine Learning

Recipient of travel and conference fees grant.

Engineering in Business Fund recipient 2019

08.2019 Royal Academy of Engineering

- Recipient of a total of 1000 pounds.

Future world's Dragon's Den 2019

11.05.2019 University of Southampton

- Pitched at the University of Southampton's Dragon's Den Event.
- Received training from varied business mentors and experts.

BrightSCIdeas Challenge Final 2019

19.03.2019 Society of Chemical Industry, UK

- Finalists at the national science-based innovations pitch competition with an AI chatbot to help with mental health.

Honours+ program

2015-2016 Maastricht University, NL

- Program for students in the top of their studies.
- Interdisciplinary project: 'Social Assistive Robots'.
- Attended workshops for creative thinking and strength finding.

SKILLS

- **Languages:** Polish (mother tongue), French (mother tongue), English (fluent), Italian (intermediate), German (beginner).
- **Programming Languages:** Python, Java, R, Matlab, C, Prolog, PostgreSQL, html, css.

PROJECTS

Personal project: Chatbot for language learning

- Building a speech recognition system robust to one's accent as well as a grammar corrector, entity classifier and dialogue management system.

Data Scientist

PCKwadraat, VissQ, Maastricht University

📅 2016-2018

📍 Maastricht, The Netherlands

- Two years Honours program “Ke@Work”, worked in the innovation team using machine learning techniques for statistical modelling.

VOLUNTEERING

President of Women in Computing

Imperial College London

📅 2021 – Present

📍 London, UK

I have been co-organizing and/or led student and research panels, industry talks at Imperial, mental-health workshops and GirlsWhoML series of workshop to introduce non-computer science students to Machine Learning.

PhD Representative

Imperial College London

📅 2020 – Present

📍 London, UK

In charge of reporting to Departmental meetings about student matters and co-organizing and/or hosting PhD activities and ICC bi-annual conferences.

Volunteer at WiML @ ICML 2021

Virtual ICML

📅 2021

📍 London, UK

Helping around at the sponsors booths.

TALKS

3rd Seminar for Computer Science Researchers

Perspektywy Women in Tech Summit 2022

📅 June 2022

📍 Warsaw, PL

Presented my research at a research panel held at the Perspektywy Women in Tech Summit 2022.

Alumni Showcase

Imperial College London

📅 June 2022

📍 London, UK

Presented my research and showed a demo to Imperial Alumni and future students.

PUBLICATIONS

👥 Conference Proceedings

- Woszczyk, Dominika, Anna Hlédiková, et al. (2022). “Data Augmentation for Dementia Detection in Spoken Language”. In: *Proc. Interspeech 2022*. URL: <https://arxiv.org/abs/2206.12879>.
- Khan, Sojhal Ismail et al. (2021). “Characterizing Improper Input Validation Vulnerabilities of Mobile Crowdsourcing Services”. In: *Annual Computer Security Applications Conference*, pp. 944–956. DOI: 10.1145/3485832.3485888.
- Woszczyk, Dominika, Alvin Lee, and Soteris Demetriou (2021). “Open, Sesame! Introducing Access Control to Voice Services”. In: *Proceedings of the 1st Workshop on Security and Privacy for Mobile AI*, pp. 7–12. DOI: 10.1145/3469261.3469405.
- Woszczyk, Dominika, Stavros Petridis, and David Millard (2020). “Domain Adversarial Neural Networks for Dysarthric Speech Recognition”. In: *Proc. Interspeech 2020*, pp. 3875–3879. DOI: 10.21437/Interspeech.2020-2845.
- Woszczyk, Dominika and Gerasimos Spanakis (2018). “MaaSim: A Liveability Simulation for Improving the Quality of Life in Cities”. In: *Joint European Conference on Machine Learning and Knowledge Discovery in Databases*. Springer, pp. 118–133. DOI: 10.1007/978-3-030-13453-2_10.

Text summariser: MSC semestrial group project

- Implemented a RNN and trained it with reinforcement learning for text summarization. Grade: 87/100.

OTHER PROJECTS

Speech & Audio Reading Group

- Founder of the Speech processing reading group at ICL.

LAMAAI

- Co-organisator of intercollegiate NLP seminars for the LAMA lab at ICL.

Sea Skipper License

- Passed the Sea Skipper License, after collecting 200 hours as crew on the sea.

SUPERVISION

MSc students

- Anna Hlédiková (2021).
- Daria Galkina (2021).
- Alvin Lee (2019-2020).

Undergraduate students

- Jessica Wu, visiting UROP student from MIT. (2022)