

DOMINIKA WOSZCZYK

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London, UK

EDUCATION

PhD in Computing

Imperial College London

2019-2023

London, UK

- Lab : **AP**lications and **S**ystems **S**ecurity.
- Topic: Security applied to Speech Recognition and IoTs devices.

MSc. Artificial Intelligence

University of Southampton

2018-2019

Southampton, UK

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

BSc. Knowledge 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

Teaching Assistant

Imperial College London

2020 - Present

London, UK

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

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.

Data Scientist

PCKwadrat, 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.

PUBLICATIONS

Conference Proceedings

- Woszczyk, Dominika, Stavros Petridis, and David Millard (2020). "Domain Adversarial Training for Dysarthric Speech Recognition". In: *To appear at Interspeech 2020*.
- 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.

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.

Text summariser: MSC semestrial group project

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

Facial emotion classifier: MSC semestrial group project

- Explored facial landmarks and CNN models for feature extraction and various models as classifier. Grade : 85/100.

SKILLS

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

AWARDS

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.
- Presented BesideYou, an AI chatbot that offers a personalised programme 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.