

Kasper Krawczyk

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An aspirational Software Engineering student with a linguistics background. Trying to combine my research skills with a self-teaching attitude, and looking forward to bringing the best of the two to meaningful and challenging projects as an intern.

EDUCATION

- **Swansea University** Swansea, UK
 - *Software Engineering (Year 1 average: 90.9)* Sept. 2020 – Aug. 2024 (Expected)
 - Introduction to Programming
 - Concepts in Computer Science
 - Modelling Computing Systems
 - Professional Issues: Software Development
- **Adam Mickiewicz University** Poznan, Poland
 - *Russian and English Linguistics, Cognitive Linguistics, Interpreting* Sept. 2014 - Sept. 2019
 - MA in English Linguistics
 - BA in Russian and English Linguistics

EXPERIENCE

- **Computer Science Teaching Assistant** Swansea, UK
 - *Teaching Assistant* Sept. 2021
 - Assisting students in their lab activities and helping them learn to code at the CS year 1 level.
 - Explaining technical concepts to undergraduates at the 1st year level.
 - Checking lab submissions of year 1 CS students for correctness and completeness.
- **Swansea University** Swansea, UK
 - *Research project volunteer* Apr 2021
 - Summer research project with a faculty member focused on event based dynamic graph visualisation techniques.
- **Computacenter** Poznan, Poland
 - *IT Analyst with English and Russian* Apr 2020. - Sept. 2020
 - Front line support with technical with software issues (e.g. Office 365, Microsoft Azure).
- **International Language Service** Poznan, Poland
 - *Translator* Jun 2015 - Aug 2019
 - **In-house translations:** Translating technical documents (e.g. contracts, health and safety manuals, consumer goods manuals) and marketing materials in combinations Polish-English, Polish-Dutch, Polish-Russian, English-Russian, also in CAT.
- **Member of European Parliament Office** Brussels, Belgium
 - *Intern* Oct 2015
 - **Internship tasks:** Note-taking in committee meetings when the Member of Parliament was not available, and reporting to the Member on the agenda of the meetings. Translating correspondence and the office's internal documents in the PL-EN combination.
- **English language teaching** Poznan, Poland
 - *Tutor* Mar. 2014 - Sept. 2020
 - Preparation and delivery of English lessons to teenage and adult students (Paragona language school) as well as tutoring in preparation of Polish university English exams (private lessons).

PROJECTS AND RESEARCH

◦ Event based dynamic graph visualisation:

- [DynNoSlice Covid](#): Extended DynNoSlice taking location into account when animating disease spread.
- [DynNoSlice Montagu Letters](#): DynNoSlice software extension to visualise correspondence of Mary Wortley Montagu.
- [Poster](#): for the Graph Drawing Symposium 2021: *Animating Disease Spread with Location Type* to be published in Jan. 2022.

◦ Other programming projects: [Path Visualiser](#), dynamic and static path drawing for routes with obstacles and [Minesweeper](#), an ASCII version of the game.

◦ Linguistics: 28th PASE Conference: *Digital multilingualism: The use of English among Polish university students* and BPA 2019 Conference: *So who is monolingual in the digital age?*

◦ Coursera Machine Learning Course: A [course](#) focused on the fundamentals of Machine Learning algorithms and the model pipeline.

PROGRAMMING SKILLS AND NATURAL LANGUAGES

- Languages: Java (algorithms, data structures, object-oriented programming at the CS year 1 level)
- Technologies: Java Swing, JavaFX, Git, L^AT_EX
- Other: Swansea University Green Book programming club participant
- Natural languages: Polish (native), English (C2), Russian (B1)

DATA VISUALISATION WITH DYNNOSLICE

(a) Covid-19 spread

(b) Montagu's correspondences

Figure *a* presents the animation of a modelled Covid-19 spread in a population over a 100-day period. Floating nodes represent infected persons, and infections are represented with black edges. Pinned nodes represents the settings where infection took place, with green edges associating an infected person to the setting where they were exposed to the disease.

Figure *b* shows the animation of Mary Wortley Montagu's correspondences over the length of her life. One letter exchange with a person from he social cycle is represented with an insertion of an edge between the red node, which stands for Montagu, and the other person.

REFERENCES

Dr Daniel Archambault: d.w.archambault@swansea.ac.uk
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