

LUCIA EVE BERGER

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EDUCATION

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| 10.2017–03.2019 | EUROPEAN MASTER · Master of Science in Computer Science & Software Engineering. Degree awarded by TU Kaiserslautern, FU Bozen and TU Berlin. Admission rank: 1 of 1200 candidates, GPA: 95/100. | Kaiserslautern, GR Bozen, IT |
| 08.2011–05.2015 | MCGILL UNIVERSITY · Bachelor in Computer Science & Economics. Research: Smart-grids and fluctuating pricing in Ontario, Canada. | Montréal, CA |
| 06.2013–01.2014 | UNIVERSIDAD A. DE GUADALAJARA · Technical Exchange Program. Eight month hardware installation project in underprivileged areas of the city. | Guadalajara, Mexico |

PROFESSIONAL EXPERIENCE

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| 01.2017–07.2018 | GERMAN INSTITUTE FOR ARTIFICIAL INTELLIGENCE (DFKI) · Graduate Researcher Implemented a multipurpose application with several integration points and a Java simulation handler. Designed and built a web scrapper that matched coordinates with open-source weather data. Redesigned the application's relational database, complete with custom and reusable libraries. Responsible for two interns, including reporting and delegation of tasks. | Berlin, GR |
| 01.2017–10.2017 | SIEMENS · Software Engineering CO-OP (10 months) Built and tested REST API for real time sensor time-series data. Improved key functionality such as robust querying, data aggregation and stand-alone micro-services. Engineered custom front-end visualizations for a dashboard providing customer insight. | Berlin, GR |
| 05.2015–09.2016 | GENERAL ELECTRIC · Software Engineer (Edison Engineering Leadership Program) Participant in the EEDP program, one of General Electric's six corporate rotational programs focused on developing technical excellence. Selected as 1st of 200 candidates. Developed scalable web features to increase the dependability of light monitoring systems. Upgraded iOS code to swift 2.0 for wind turbine localizing application. Worked with end users to determine and transform their information needs into design guidelines. | Montréal, CA |
| 08.2014–01.2015 | PRATT & WHITNEY · CO-OP Student (McGill Institute for Aerospace Engineering) Captured user and system requirements to be used by product owners and QA. Built preliminary wireframes and design specs. Created highly precise and flexible unit tests for aerospace equipment. Conducted user surveys and testing on UI wire-frames to calculate usability. | Montréal, CA |
| 05.2013–05.2015 | MCGILL UNIVERSITY · Undergraduate Researcher Cleaned and standardized large samples of data with python dataframes and excel macros to be used by faculty professors for the Institute of Health Care and Economics. Collaborated with faculty members to design data requirements and appropriate models. | Montréal, CA |

SKILLS

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| Programming | Python (django, flask, pandas, numpy, tensorflow), Java, MySQL, JS (angular, react, node), CSS3, HTML5 |
| Software | Weka, Adobe Design Suite, Stata |
| Languages | English (native), French (C1), Spanish (C1), German (B1.2), Italian (A2) |

PROJECTS & AWARDS

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| 11.2017–present | UNCERTAINTY FRAMEWORK, TRAFFIC SIGN DETECTION & MODELLING Master thesis on quantifying uncertainty in Traffic Sign Detection, with Fraunhofer IESE. | Kaiserslautern, GR |
| 08.2017–present | EU CONSORTIUM SCHOLARSHIP RECIPIENT Awarded academic scholarship €24,000/year. | Berlin, GR |
| 10.2017–01.2018 | TWEET CLASSIFICATION Machine learning project that classified tweets on sentiment and content. Native Bayesian classifier, natural language processing, and weka. | Bozen, IT |
| 03.2017 | TU BERLIN ENERGY MANAGEMENT CERTIFICATE Recipient of Energy Management certification (Solar, Wind and Heat Transfer). | Berlin, GR |
| 01.2015 | APEX STARTUP AWARD (3RD) Delivered energy monitoring application, independently awarded \$1000 for innovation. | Fredericton, CA |