

LUCIA EVE BERGER

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| EXPERIENCE | MICROSOFT (NUANCE) — RESEARCH APPLICATION SCIENTIST, MONTREAL | 04/21 – present |
| | · Programmed software for reliable end-to-end Automatic Speech Recognition. | 09/19 – 07/20 |
| | · Optimised pipelines to capture system metrics for shareholder’s use. | |
| | · Tuned systems for better performance in cases of overlapped speech (30% improvement). | |
| | · Developed a custom acoustic estimator and voice-activity classifier using neural-networks. | |
| | · Tested recognition under difficult noise conditions, across languages and at lower latency. | |
| | · Reviewed code and provided development support in python, lua, and java. | |
| | MCGILL UNIVERSITY — SOFTWARE DEVELOPER, MONTREAL | 06/20 – 04/21 |
| | · Implemented a reliable pipeline for classifying streaming twitter data. | |
| | · Delivered a flexible API and dashboard that geo-located, and visualized tweets in near real-time. | |
| | GERMAN INSTITUTE FOR AI (DFKI) & SIEMENS — RESEARCHER, BERLIN | 01/17 – 09/18 |
| | · Constructed a REST API in java for monitoring sensor data for real-time consumption. | |
| | · Enhanced the querying and aggregation of such data to meet customer specifications. | |
| | · Clustered unsupervised datasets and augmented data with real-life conditions. | |
| | GENERAL ELECTRIC — SOFTWARE ENGINEER, MONTREAL | 05/15 – 11/16 |
| | · Participant in the EEDP (Edison Engineering Development Program), a corporate rotational program focused on developing technical excellence. Selected as 1/200 candidates. | |
| | · Built new features to increase the dependability of light monitoring systems with python and swift for mobile applications. | |
| EDUCATION | MILA & UNIVERSITY OF MONTREAL | Montreal |
| | Specialized Graduate Degree in Machine Learning (D.E.S.S) | 09/20 – 01/23 (expected) |
| | · MILA is Quebec’s Institute for Artificial Intelligence education, research and collaboration. | |
| | · GPA: 4.0, fully funded by RBC Future Launch Scholarship (2 year recipient, \$3000). | |
| | · <i>Machine Learning and the Environment, Feature Representations, Project-based learning.</i> | |
| | TU BERLIN, TU KAISERSLAUTERN & FU BOZEN | Berlin & Bozen |
| | Joint Master degree in Software Engineering & Computer Science (Erasmus Mundus) | 08/19 |
| | · Admission rank: 1 st of 1200 applicants (18 of 1200 accepted). | |
| | · GPA: 109/110 (99%. 4.0), fully funded by a EU scholarship (€ 48,000 / 2 years). | |
| | · <i>Machine & Deep Learning, Robotics, Data Mining & Visualization, Statistical Methods</i> | |
| | MCGILL UNIVERSITY | Montreal |
| | Bachelor degree in Computer Science & Economics | 05/15 |
| | · 8-month technical exchange in Universidad Auto de Guadalajara, Mexico. | 8/13 |
| PROJECTS | Champlain College: Instructed Java I, II & Operating Systems at the CEGEP level.(200 hours) | 05/21 |
| | Rosedale Academy: Designed computer science curriculum for an Ontario school-board.(110 hours) | 05/21 |
| | Adventures in AI: Implemented an interactive Python and AI course for 8 to 12s. (50 hours) | 02/21 |
| | NVIDIA GPU optimization: Certificate on use of GPUs for deep learning. (40 hours) | 03/19 |
| | APEX Business Competition 3 rd place, 1000 CAD for energy gamification application. | 05/15 |
| | Pratt & Whitney: 8 month engineering COOP, focused on quality assurance and usability testing. | 01/15 |
| POSTERS & PAPERS | Nuance Internal Conference: Moving Toward One Central Research ASR Testing Framework | 03/22 |
| | EUSIPCO 2020: Non-Intrusive Estimation of Speech Signal Parameters | 01/21 |
| | Thesis: Refining a Data-Driven Model Uncertainty Framework with a Traffic Sign Recognition | 08/19 |
| SKILLS | Coding — python, java <i>familiar:</i> C/C++, ruby, lua. | |
| | Web — HTML, CSS, javascript (angular.js, react.js, node.js, express.js), django, flask. | |
| | ML/DL — pandas, numpy, sklearn, <i>familiar:</i> keras, scikit, tensorflow, pytorch. | |
| | Data Processing — SQL, noSQL, postgres, data mining, visualization <i>familiar:</i> AWS. | |
| | Languages — English (native), French (C1), Spanish (C1), German (B2), Italian (A2). | |