

LUCIA EVE BERGER

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EXPERIENCE	Microsoft — (acquired 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 deep learning.
	· 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 — Junior Software Engineer — Berlin 01/17 – 09/19
	· 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.
	· Prepared datasets (clustered, augmented, analysed) for unsupervised learning tasks.
	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
	D.E.S.S – Professional Master Degree in Machine Learning (part-time) 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).