

Rebecca Salganik

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EDUCATION

- **Universite de Montreal/Mila** Montreal, QC, Canada
Masters in Computer Science; GPA: 4.13/4.30
Courses: Spectral Graph Theory, Network Science, Tensor Factorization. Aug 2021 - May 2023
- **McGill University** Montreal, QC, Canada
B.A in Computer Science; GPA: 3.54/4.00 Aug 2017 - May 2021
- **McGill University** Montreal, QC, Canada
B.Mus in Voice Performance, Minor Marketing; GPA: 3.87/4.00 Aug 2015 - May 2017

SKILLS SUMMARY

- **Programming Languages:** Python, Java, C, SQL, Unix scripting
- **Languages:** Russian, English, French

WORK EXPERIENCE

- **Pandora Labs - SiriusXM** Remote
Research Intern - Fabien Guyon June 2023 - Aug 2023
 - **Position Details:** Worked in the *Recommendation System* team, supervised by Fabien Guyon, Andres Ferraro, and Sergio Oramas
 - **Project Details:** Integrating collaboration data into graph-based artist representation learning for downstream recommendation tasks
- **MIT Lincoln Labs** Lincoln, MA
Research Intern - Dr. Michael Brandstein Aug 2020 - Dec 2021
 - **Position Details:** Worked in the *Signal and Lanugage Processing* team (Group 52), supervised by Dr. Michael Brandstein
 - **Project Details:** Using a CNN to classify the location (longitude and latitude) of field recordings based on the bird calls present in them
 - **Novel feature extraction library:** Implemented a information retrieval feature extraction library (MPEG-7) for signal the use of processing feature extraction
 - **CNN models:** Inception Stem CNN, CNNk2c2, and RCNN architectures for classification of a spectrogram image
- **Lyft** Remote
Machine Learning Engineer Intern May 2020 - August 2021
 - **Dispatch Modelling:** Implemented the Gaussian UCB algorithm for integration with the internal predictive models used for dispatching drivers
 - **RL based Hyperparameter tuning:** Assisted in prototyping of an RL algorithm to select hyperparameters for backbone machine learning models
- **McGill University - Prof. William Hamilton** Montreal, QC, Canada
Undergraduate Research Student September 2019 - December 2019
 - **Predicting Music Popularity:**
 - Designed, organized, and scoped the project proposal
 - Worked with the Spotify and Billboard API's to scrape temporal song charts
 - Implemented a series of machine learning and deep learning models to classify the likelihood of a song appearing in the Billboard Top 100 charts
 - Produced complete and thorough report of work + github repository of code
- **ActivSignal** Boston, MA, US
Research Engingeering Intern May 2019- August 2019
 - **Data Analysis:**
 - Worked with Pancreatic Cancer Dataset to identify unique protein signatures for early diagnosis
 - **Machine Learning:**
 - Developed regression models for predictive analysis of sample quality
- **CitiBank** Toronto, ON, Canada
Software Engingeering Intern May 2019- August 2019
 - **Python Developer:**

- Implemented python script for monitoring trading logs for latency anomalies

• Gramophone Media

Marketing Intern

NYC, NY, USA

May 2017- August 2017

- **Public Relations:**
 - Coordinated social media outreach before album launches
- **Press Relations:**
 - Communicated with media outlets located on tour routes to increase media turnout
- **Market Analysis:**
 - Presented analytics of clients' social media presence

ACADEMIC PROJECTS

- **Harms from Increasingly Agnetic Systems:** In: FaccT 2023. Chan, A., **Salganik, R.**, Markelius, A., Pang, C., Rajkumar, N., Krasheninnikov, D., Langosco, L., He, Z., Duan, Y., Carroll, M., Lin, M., Mayhew, A., Collins, K., Molamohammadi, M., Burden, J., Zhao, W., Rismani, S., Voudouris, K., Bhatt, U., Weller, A., Krueger, D., Maharaaj, T. <https://arxiv.org/abs/2302.10329>
- **Exposure Fairness in Music Recommendation :** In: NeurIPS 2022 WiML Workshop. Salganik, R., Diaz, F., Farnadi, G., (Forthcoming)
- **Analyzing the Effect of Sampling in GNNs on Individual Fairness:** In: RecSys 2022 FaccTRec Workshop. Salganik, R., Diaz, F., Farnadi, G.. <https://arxiv.org/pdf/2209.03904.pdf>
- **AI & Cities: Risks, Applications and Governance:** Mila – Québec Artificial Intelligence Institute. UN-Habitat: Nairobi. <https://unhabitat.org/ai-cities-risks-applications-and-governance>
- **The AI Industry Through the Lens of Ethics and Fairness:** In: Missing Links in AI Governance. Mila, UNESCO: Paris. Farnadi, G., Leal, A. and **Salganik, R.**, <https://unesdoc.unesco.org>

HONORS AND AWARDS

- Ivado Scholar - Masters of Excellence

Applicants were required to submit project proposal, 3 letters of recommendation, and transcripts. Awards were granted based on the grades and merit of project contributions towards greater good. Selected scholars were granted a 20K financial stipend.

COMMUNITY OUTREACH

- DEFfirst Reading Group - 2022-2023

Organizing weekly reading group ([link](#)) focused on fairness in recommendation, ranking, and information retrieval

- Helpdesk Tutor - 2020-2021

Volunteered 4 hours a week to provide free tutoring for computer science undergraduate students

- VP Arts CSUS - 2019-2020

Elected as Faculty of Arts representative for the Computer Science Undergraduate Society.