

# VINCENT QUENNEVILLE-BÉLAIR

vqb@umn.edu · umn.edu/~vqb  
GitHub vincentqb · LinkedIn vincentqb

## EXPERIENCE

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**Machine Learning Engineer.** Facebook, NY. 2019-Now

**Machine Learning Scientist.** Amazon, NY. 2017-2019

Generate long-term strategic inventory capacity forecast. Model counterfactual scenarios.  
Optimize supply chain expansion recommendations.

Build causal impact models to estimate advertising campaign lift. Infer future returns  
and optimize advertising portfolio.

Teach internal machine learning specialization course series on matrix factorization,  
dimensionality reduction, and recommender systems.

**Chu Assistant Professor of Applied Mathematics.** Columbia University. 2015-2017

Model gravitational wave propagation to understand black hole collisions. Create and ana-  
lyze novel specialized mixed finite element methods to simulate these models numerically.

**Chief Data Scientist.** Vizanda, NY. 2016-2017

Develop web-based software to automatically extract information from structured and  
unstructured data on the fly. Process the information to programatically generate relevant  
visualizations and intelligent insights.

## EDUCATION

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**PhD Applied Mathematics.** University of Minnesota.

NSERC Alexander Graham Bell Canada Graduate Scholarship

University of Minnesota Doctoral Dissertation Fellowship

Mentored over 20 teams for international Mathematical Contest in Modeling

**MCS Computer Science.** University of Minnesota.

**MSc Applied Mathematics.** University of Minnesota.

FQRNT Research Scholarship

**BSc Mathematics and Physics.** McGill University, Canada.

Twice meritorious winner in international Mathematical Contest in Modeling

First class honors

**Technologies.** Python, Scikit-Learn, SQL, Spark, Linux.