

# Remi Daviet

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## Research Interests

- Using behavioral and neuroscience insight to model decisions.
- Developing econometric methods for empirical analysis (Bayesian Econometrics).

## Education

### **Ph.D. Candidate, Economics | University of Toronto | 2014 - 2018**

- Dissertation: Methods for Statistical Analysis and Prediction of Choice
- Committee:
  - Econometrics: Martin Burda (co-chair), Christian Gourieroux (co-chair)
  - Marketing: Andrew Ching, Ryan Webb
- Honors: Teaching Excellence Award (2015), Distinction in Econometrics (2015)

### **M.Sc. Economics | University of Montreal | 2013 - 2014**

- Dissertation: Non-parametric Bayesian Analysis of Discrete Choice Experiments
- Honors: Dean's list

### **M.B.A. | Laval University | 2009 – 2011**

### **B.Sc. Management | University of Lausanne (HEC) | 2005 – 2008**

## Professional Experience

### **IT & Digital Marketing (founder) | Daviet Innovation Inc. 2012 -2014**

- From small to large scale projects involving multiple teams on several months

### **Marketing Manager | ERA Environmental Consulting. 2011-2012**

- Developed Pull-Marketing Strategy

## Working Papers

### **Marketing**

- “Neural Normalization and Context Effect: A Hierarchical Bayesian Application”, Remi Daviet
- “Dynamic Optimal Sequential Inference for Experiments: An Application to Multi-Attribute Choice”, Remi Daviet, Ryan Webb
- “Double Decoy Effect: When More is Too Much “, Remi Daviet, Ryan Webb

## Methodology

- “Dynamic Optimal Bayesian Inference for Experiments with Sequential-Monte Carlo Methods”, Remi Daviet (Package on website)
- “Hamiltonian Sequential Monte-Carlo: Application to Consumer Demand”, Remi Daviet, Martin Burda
- “Memory-Preserving Adaptive Sequential Monte Carlo for Discrete Choice”, Remi Daviet (Package on website)

## Research in Progress

- "Bayesian Non-Parametric Inference for Discrete Choice Experiments with Multi-Dimensional Clustering", Remi Daviet, William J. McCausland
- "Big Data for Demand Estimation: A Bi-Clustering Approach", Remi Daviet, Christian Gourieroux

## Conference Presentations

“Dynamic Optimal Bayesian Inference for Experiments with Sequential-Monte Carlo Methods” (Poster)

- Annual Conference of the Society for Neuroeconomics, 2017
- 7th Consumer Neuroscience Satellite Symposium, 2017
- Canadian Econometric Study Group, 2017
- Workshop for Interactions between Econometrics and Applied Microeconomics, 2017

"Big Data for Demand Estimation: A Bi-Clustering Approach" (Poster)

- Canadian Econometric Study Group, 2016
- New challenges for Big Data in Economics and Finance, 2016

"Bayesian Non-Parametric Inference for Discrete Choice Experiments with Multi-Dimensional Clustering"

- Canadian Annual Doctoral Workshop in Applied Econometrics

## Teaching Experience

### Teaching Interests:

Big data and Marketing Analytics, Statistics (Bayesian and Traditional), Experimental and Behavioral Research, Decision Models and Analytics, Neuromarketing, Data Driven Decision Making

### Course instructor:

- Empirical Industrial Organization (3<sup>rd</sup> year, undergraduate)

### Teaching Assistant:

- Undergraduate Level:
  - Quantitative Methods in Economics (2<sup>nd</sup> year)
  - Econometrics (3<sup>rd</sup> year)
- Master Level:
  - Econometrics (Master of Financial Economics)
  - Stata / Matlab / R Departmental Assistant (Multicourse)

- Doctoral Level:
  - Econometrics II

## Doctoral Coursework

- Marketing:
  - Econometric Methods in Marketing (Prof. Andrew Ching)
  - Industrial Organization I / II (Prof. Frank Mathewson, Prof. Victor Aguirregabiria)
- Econometrics:
  - Applied Bayesian Methods (Prof. Michael Escobar)
  - Advanced Econometrics (Prof. Christian Gourieroux)

## Programming Skills

- Languages: R, MATLAB, C/C++, CUDA (GPU), Python, PHP
- Methods: Parallel Computing, GPU Computing (Nvidia), High Performance Computing (Toronto's Supercomputer)
- Environment: Windows, Linux (Desktop/Server)

## Academic Society Membership

- American Marketing Association
- Society for Neuroeconomics

## Other Skills

- Languages: English (Fluent), French (Fluent), Japanese (Intermediate), German (Intermediate), Korean (Beginner), Chinese (Beginner)
- Music: Piano, Bass, Drum, Computer Assisted Composition, Acapella
- Sports: Triathlon, Inline Skating, Capoeira

## References:

### **Martin Burda (Chair)**

Associate Professor, Department of Economics, University of Toronto

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### **Christian Gourieroux (Co-Chair)**

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**Ryan Webb**

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**Andrew Ching**

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