

**Guillaume Saint-Jacques**  
Ph.D. Candidate (4<sup>th</sup> year)  
Information Technologies / Economics track  
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Application to the 2015 NBER Winter Tutorial on Digitization

Dear Sir or Madam,

I would like to apply to the NBER Winter Tutorial on Digitization, as it is my main area of interest. I believe the tutorial would greatly help be me in my research. I am supplying the required information below. Please do not hesitate to contact me if I can provide any additional information.

**Areas of Interest**

- Economics of Information Technologies
- Social Network Analytics, causal inference in networks
- Machine Learning and Econometrics

**Advisors:**

- Erik Brynjolfsson (primary advisor, MIT and NBER)
- Sinan Aral (MIT)
- Thomas Piketty (master's advisor, Paris School of Economics and ENS Paris)

**Academic Program and Coursework**

I am a fourth year in the "Information Technologies" Ph.D. program, chaired by Prof. Erik Brynjolfsson.

**Relevant graduate Coursework and Research seminars:**

- MIT Economics micro sequence (14.121,14.122,14.123,14.124)
- MIT Economics econometrics sequence (14.481, 14.482, 14.387)
- MIT Econ Industrial Organization (minor field for my general exams, 14.271,14.272)
- Statistics and Machine learning (15.777)
- Social Networks Analytics (15.569)
- Research Seminar in Information Economics (E. Brynjolfsson)
- Social Analytics lab (S. Aral)
- Master's degree in Economics from École Normale Supérieure (Paris) and Paris School of Economics.

### Teaching

- Teaching assistant for 15.567 (Economics of Information)
- Tutor for the MIT Sloan Analytics Lab

### Tools used for research

Primarily R with Amazon EC2 Cluster; Hadoop, Stata, SAS.

### Current Research Projects

- *Information Technologies and the Rise of the power law economy* (with E. Brynjolfsson – Accepted at the International Conference on Information Systems (ICIS 2015, refereed)
- *Information Technology and Executive Pay and Mobility* (with E. Brynjolfsson and Heekyung Kim – work in progress)
- *Phone Networks and Economic Opportunity in Southeast Asia* ( with S. Aral, E. Jahani, S. Pentland – work in progress)

### Reviewer for:

- Management Science
- International Conference in Information Systems