MALEK BEN SLIMAN

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EDUCATION

Columbia University

New York, NY

PhD in Quantitative Marketing, Columbia Business School

May 2020

• Dissertation: "The Art of Art Valuation"

• AMA-Sheth Foundation Doctoral Consortium Fellow

• MS in Operations Research, Columbia Engineering School

Dec 2014

Ecole Centrale Paris

• MS in Engineering: Industrial Engineering

Paris, France

Lycée Louis le Grand

Jun 2013 Paris, France

Classes préparatoires: Mathematics and Physics

• Awarded 5-year Excellence Scholarship by French Government

Jun 2011

DOCTORAL WORK

• Coursework: Multivariate Statistics, Economics, Econometrics, Graph Theory, Bayesian Methods, Mathematical and Empirical Models in Marketing, Optimization, Consumer Behavior, Industrial Organization, Causal Inference

• Teaching experience

- Designed curriculum and teaching material for 1,500+ graduate (MBA, MS, PhD) students in: Pricing Strategies, Marketing Strategy and Models, Multivariate Statistics, Digital Marketing
- Launched a MOOC edX Marketing Analytics class currently starting its 5th iteration
- Prepared and taught tutorials on SAS and R programming

PROJECTS

Dissertation: the art of art valuation

- Received Luxury Education Foundation Award 2019
- Develop an art valuation model based on paintings' aesthetics, novelty, influence, and artists' historical market value
- Scraped and preprocessed 140,000+ fine art auction records containing text and images (ie, unstructured data)
- Extracted key visual features in all paintings by building machine learning models (eg, variational autoencoder)
- Quantified novelty and influence by using social network theories and analysis tools to create an art network

Increasing the virality of information in online and offline social networks

- Created techniques to identify users with above-average number of followers (ie, influencers)
- Developed strategy to generate the widest spread of information by developing theoretical bounds
- Achieved a twentyfold improvement through simulations on a Twitter dataset
- Wrote two papers, under review and presented at *Marketing Science* (2018)

Measuring the practicality of marketing research from academia

- Designed a Relevance-to-Marketing (R2M) index using NLP techniques (eg, topic modeling, word embeddings) to measure the practicality of academic papers
- Scraped and preprocessed 10,000+ papers published in top marketing, economics, and psychology journals
- Constructed and distributed surveys to marketing managers to assess the R2M index's validity
- Wrote paper, under review and presented at Theory+Practice in Marketing (2017, 2018)

Creating dynamic website interfaces for online retailers, increasing consumer satisfaction and revenue

- Developed a method to dynamically customize the products and features displayed after each user's clicks
- Estimated customer preferences using bayesian nonparametric tools (eg, Dirichlet process)
- Paper under review and presented at Marketing Science (2019) and at Data Science Institute Poster Session (2019)

SKILLS & HOBBIES

- Computer skills:
 - Programming Languages: Python, R, Matlab
 - Data Analytics and Databases: Keras, Tensorflow, sklearn, gensim, SQL
 - Data Visualization: ggplot, matplotlib, Tableau
- Languages: French, Arabic, Spanish (basic)
- Hobbies: Tennis, soccer, wine tasting and mixology