Ines Krissaane

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EDUCATION

Sheffield University and Microsoft Research Cambridge — Sheffield, UK
PhD, Statistics funded by Microsoft Research — *March. 2019 -*

Sorbonne University — Paris, France
Master's degree, Statistics and Data Science, Highest Honors — *2016 - 2018*

Pierre and Marie Curie University — Paris, France
Bachelor's degree, Mathematics — *2013 – 2016*

EXPERIENCE

Harvard Medical School — Boston, United States
Data Scientist — *April 2018 - Feb 2019*

- **Research Associate**: Scalability and cost-effectiveness analysis of whole genome wide association studies on Google Cloud Platform and Amazon Web Services.
- **Visiting Research Scholar in Data Science**: Exploring Scalability of Hail variant store in the cloud (Supervisor : Paul Avillach).

AgroParisTech - INRA — Paris, France
Statistics Internship — *Summer 2017*

- **Research Intern**: Mixed linear model and estimation of the mixability of wheat varieties in incomplete device (Supervisors : Stephane Robin and Christophe Ambroise)

PUBLICATIONS

- **Accepted**:
Forst, Emma, Jrme Enjalbert, Vincent Allard, Christophe Ambroise, Ins Krissaane, Tristan Mary-Huard, Stphane Robin, and Isabelle Goldringer. 2019. A Generalized Statistical Framework to Assess Mixing Ability from Incomplete Mixing Designs Using Binary or Higher Order Variety Mixtures and Application to Wheat. Field Crops Research 242 (October): 107571.

- **Submitted**:
Krissaane, Ines., Wilkinson, Richard, Alshenaifi Jumanah. 2019. Anomaly Detection Semi-Supervised Framework for Sepsis Treatment. 2019 Computing in Cardiology Conference (CinC). Computing in Cardiology

CONFERENCES

Computing in Cardiology — Singapore
Poster presentation — *Sept 2019*

Precision Medicine Annual Conference — Boston, USA
Oral presentation — *June 2019*

PROJECTS

- **Data Challenge - Societe Generale**: Predict the Crude Oil production trend - Rank: 12th position (top 8 percent)
- **Application of Markov chains to the detection of genetic motifs**: Simulate and analyze genetic sequences using hidden Markov chains and then implement the Expect-Maximize algorithm. (Supervisor : Catherine Matias)
- **American Election Analysis** : Analysis of the vote in favor of the Republican or Democratic party during the American elections (in Python) (Supervisor : Tabea Rebafka)

WORKSHOPS AND SUMMER SCHOOLS

Machine Learning Summer School — London, UK
Optimization and Bayesian inference to deep learning, reinforcement learning and Gaussian processes.(40h) — *July 2019*

Study group AI in Healthcare — Manchester, UK
Rare disease prediction with Mendelien — *June 2019*

Training

- **Academy for PhD Training in Statistics** — Durham University, UK
  High-dimensional Statistics 12h - Computer Intensive Statistics 12h — July 2019
- **Academy for PhD Training in Statistics** — Southampton University, UK
  Applied Stochastic Processe 12hs - Statistical Modelling 12h — April 2019
- **Academy for PhD Training in Statistics** — Oxford University, UK
  Flexible regression 12hs - Design of experiments 12h — Sept 2019

Programming Skills

- **Languages**: R, Python, C++, SQL, Matlab   **Cloud**: AWS, Google Cloud, Azure, Docker

Teaching

- **Mathematics**: Students from high school to bachelor

- **BMI 705 Precision Medicine II: Integrating Clinical and Genomic Data**: Master Students, Harvard Medical School