# Victor Trappler

*PhD Student in the AIRSEA team*

## Research interests

I am currently a PhD student of Grenoble-Alpes University in the AIRSEA team (Inria), under the supervision of Arthur Vidard, Élise Arnaud, and Laurent Debreu. My research interests revolve mainly around **Uncertainty Quantification**, and **Inverse Problems**. More specifically, I am interested in Robust Optimization and Optimization under Uncertainties (OUU), in the context of the **estimation of parameters under uncertainties**.

## Education

2017–Current **PhD Student**, *AIRSEA, Inria/LJK*, Grenoble, France.
*Title*: Parameter control in the presence of uncertainties
*Abstract*: Classical methods of parameter estimation usually imply the minimisation of an objective function, that overlooks the role of uncertain parameters. Strategies taking into account these uncertainties need to be defined
*Keywords*: Parameter Estimation; Optimisation under Uncertainties; Data Assimilation
*Advisors*: A. Vidard, É. Arnaud, L. Debreu

2015–2017 **MSc Mathematical Modelling and Computation**, *Danmarks Tekniske Universitet*, Kgs. Lyngby, Denmark.
*Focus points*: Applied mathematics analysis, Dynamical Systems, Scientific Computing, Statistical modelling

2013–2017 **Engineering Degree**, *École Centrale Lyon*, Écully, Interests and courses oriented toward applied mathematics.

## Experience

### Internships/Master thesis

2017 **Master Thesis**, *AIRSEA, Inria/LJK*, Grenoble, France.
*Title*: Parameter control in the presence of uncertainties: Robust estimation of bottom friction
*Advisors*: Uffe Høgsbro Thygesen (DTU), Élise Arnaud, Arthur Vidard, Laurent Debreu (Inria)

2015 **Intern**, *EDF R&D*, Chatou, France.
Developement of MATLAB tools for hydrodynamical model TELEMAC3D, with the purpose of estimating the residence time

### Teaching experience

2017–2018 **Teaching assistant**, *Grenoble-Alpes University*.
Lectures in calculus, algebra, and computer lab sessions in statistics for undergraduates students. Teaching time adding up to 120h:
- L2 STA301: 72h of lab work on statistics using the R language
- L1 MIASHS: 20h of exercise sessions on calculus
- L1 MAT104: 28h of lectures and exercise session on geometry and algebra

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## Presentations and publications

2019 (expected) Oral Presentation at the Applied Inverse Problems Conference, in the mini-symposium "Dimension reduction in inverse problems", Grenoble, France

2018 Oral Presentation at the National Colloquium for Data Assimilation, Rennes, France

2018 Poster at the Workshop on Sensitivity Analysis and Data Assimilation in Meteorology and Oceanography, Aveiro, Portugal

## Relevant skills

CS skills Python, R, LaTeX, bash

Languages French (Fluent) *Mothertongue*

English (Fluent) *TOEFL IBT score: 105/120 (2015)*

German (Intermediate) *Adapted for casual conversations*

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