



# Linard Hoessly

## *Curriculum vitae*

### Education

- 2015-present **Doctoral student in Mathematics**, *University of Fribourg*.  
Combinatorics and Mathematical Biology, Advisors: Christian Mazza/Emanuele Delucchi
- 2014-2015 **MSc. Mathematics**, *University of Zurich*.  
Focus on algebraic topology, algebraic geometry and stochastic processes, Master thesis on the derived category of coherent sheaves, Advisor: Andrew Kresch
- 2010-2014 **BSc. Mathematics**, *University of Zurich*.  
"Studium generale" with courses in Philosophy and Neuroinformatics (BA Level)

### Publications

- 2016 **Fundamental polytope of metric trees via hyperplane arrangements**,  
*Emanuele Delucchi and Linard Hoessly*, submitted.

### Conferences and doctoral schools

- 2017 **Workshop on Matroids over Hyperfields**, *Uni Fribourg*, Fribourg, Switzerland.
- 2017 **Special period in algebraic and combinatorial phylogenetics**, *BGSMath*,  
Barcelona, Spain.  
- 1 week lectures on phylogenetics and combinatorics (Steel, von Haeseler);  
- 1 week workshop;  
- 1 week lectures on semialgebraic statistics, latent tree models, and phylogenetics (Zwiernik)
- 2017 **Conference: Arrangements and beyond, combinatorics, geometry, topology and applications**, *Centro di ricerca matematica, Ennio De Giorgi, Scuola Normale Superiore Pisa*, Pisa, Italy.
- 2017 **Conference: Perspectives in algebraic topology**, *University of Pisa*, Pisa, Italy.
- 2017 **Winter school in Stochastics: Recent trends in Markov processes**, Les Diablerets, Switzerland.
- 2017 **Winter school: Geometry, Algebra and Combinatorics of Moduli Spaces and Configurations**, Dobiaccho, Italy.
- 2017 **Winter school in Statistics**, Les Diablerets, Switzerland.

- 2016 **Conference: Transport phenomena in collective dynamics**, *FIM-ETH*, Zürich, Switzerland.  
Transport phenomena in collective dynamics: from micro to social hydrodynamics
- 2016 **Workshop: Enumerative, Algebraic and Geometric Aspects of Arrangements**, *University of Bremen, ALTA*, Bremen, Germany.
- 2016 **Dresden Summer School in Systems Biology**, *Max Planck institute Dresden*, Dresden, Germany.
- 2016 **CIMPA research school: Algebraic, Enumerative and Geometric Combinatorics - ECCO 2016**, *Universidad Nacional sede Medellín*, Medellín, Colombia.
- 2016 **Doctoral school and workshop: Topology and Geometry of arrangements**, *Uni Fribourg*, Fribourg, Switzerland.
- 2016 **Winter school on Matroids in Algebra, Representation theory and Topology: Borel Seminar 2016**, *Uni Fribourg*, Les Diablerets, Switzerland.
- 2016 **Seventh plant science study group MPSSG Nottingham**, *University of Nottingham*, Nottingham, England.
- 2015 **Workshop: Journee de Rham**, *EPFL*, Lausanne, Switzerland.

## Talks and posters

- 2017 **Workshop: Algebraic and combinatorial phylogenetics**, *BGSMath*, Barcelona, Spain.  
Poster: Fundamental polytopes of tree-like metric spaces
- 2017 **InterCity seminar**, *Universities Bern/Fribourg/Neuchatel*, Fribourg, Switzerland.  
Talk: Fundamental polytopes of tree-like metric spaces
- 2016 **Dresden Summer School in Systems Biology**, *Max Planck institute Dresden*, Dresden, Germany.  
Poster: Inference for chemical reaction networks

## Work experience

### Academic

- 2015-present **Teaching assistant**, *University of Fribourg*.  
Autumn-semester 2017: "Propedeutic" linear algebra 1  
Spring-semester 2017: Introduction to statistics  
Autumn-semester 2016: Linear algebra 1  
Spring-semester 2016: Statistics 1 and Reading Seminar on Percolation theory  
Autumn-semester 2015: Analysis 1 and Stochastics 1
- Autumn 2014 **Teaching assistant 45 %**, *ETH Zurich*.  
Analysis 1 for mathematics and physics students
- Spring 2014 **Teaching assistant 25 %**, *UZH*.  
Mathematics 1 for chemistry students

## Non-academic

2010,2012 **Computer science pioneer**, *Swiss military*.

Finished Swiss military basic training, function basic training and unit training

2004-2008 **Apprenticeship Electroengineer**, *MSW Winterthur*.

An apprenticeship as electroengineer includes training in soldering, programming ,electrical troubleshooting and basic circuit design

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## Languages

German **mother tongue**

French **fluent**

English **fluent**

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## Software skills

Software basic knowledge:

MATLAB, L<sup>A</sup>T<sub>E</sub>X, R, JAVA,C++,PYTHON,JULIA