

# Tassion Vincent

Curriculum Vitae

## PERSONAL

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Born on March 25, 1986  
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## CURRENT AND PAST POSITIONS

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2021–present **Associate Professor**, *ETH Zürich*.  
2017–2021 **Assistant Professor**, *ETH Zürich*.  
2014–16 **PostDoc**, *Université de Genève*, advised by H. Duminil-Copin.

## EDUCATION

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2011–14 **PhD**, *ENS Lyon*, advised by V. Beffara.  
2011 **Master**, *Université Paris XI*.  
2010 **Agrégation de Mathématiques**.  
2008 **Licence ès Mathématiques**, *ENS Lyon*.  
2007 **Classes préparatoires**, *Lycée La Martinière Monplaisir, Lyon*.

## DISTINCTIONS

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2021 **IUPAP Young Scientist Prize**  
2019 **ERC Starting Grant CRISP (2020–25)**  
2019 **Rollo Davidson Prize**  
2015 **Swissmap Innovator Prize**

## MENTORING

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### POSTDOCS

2021–present **Franco Severo**.  
2020–present **Barbara Dembin**.  
2019–2020 **Hugo Vanneuville**, *co-mentor*.

### PHD STUDENTS

2019–present **Laurin Köhler-Schindler**.  
2018–present **Daniel Contreras**.  
2018-19 **Mayra D. Bermudez Contreras**, *coadvised with W. Werner and P. Nolin*.

## MASTER AND BACHELOR STUDENTS

- 2021 **Jiaming Chen**, *semester paper, coadvised with M. Nietscher.*  
**Vincent Garot**, *bachelor thesis (ext.), coadvised with B. Dembin.*  
**Andrin Hirschi**, *master thesis, coadvised with D. Contreras.*
- 2020 **Peter Wildemann**, *master thesis.*  
**Giulia Docimo**, *master thesis, coadvised with H. Vanneuville.*
- 2019 **Leonardo Santoro**, *master thesis, coadvised with I. Manolescu.*  
**Ho Fu-Hsuan**, *master thesis, coadvised with I. Manolescu.*  
**Laurin Köhler-Schindler**, *master thesis.*  
**Cyrrill Scheidegger**, *bachelor thesis.*  
**Laurin Köhler-Schindler**, *semester paper.*
- 2018 **Daniel Contreras**, *master thesis.*  
**Vanessa Piccolo**, *bachelor thesis.*

## TEACHING ACTIVITIES

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### ETH ZURICH

- 2021 **Ising model**, *master.*  
**Applied stochastic processes**, *bachelor.*  
**Student Seminar in Probability: potential theory**, *bachelor*, jointly with J. Bertoin, A.-S. Sznitman and W. Werner.
- 2020 **Percolation theory**, *master.*  
**Probability Theory and Statistics**,  
Electrical Engineering and Information Technology Bachelor.  
**Student Seminar in Probability: Branching processes**, *jointly with J. Bertoin, L. Köhler-Schindler, A.-S. Sznitman, and W. Werner.*
- 2019 **Random walks on transitive graphs**, *master.*  
**Graduate Seminar in Probability: Nodal lines**, jointly with H. Vanneuville, J. Bertoin, A.-S. Sznitman and W. Werner.  
**Applied stochastic processes**, *bachelor.*  
**Student Seminar in Probability: Random Matrices**, *bachelor*, jointly with J. Bertoin, A.-S. Sznitman and W. Werner.
- 2018 **Ising model**, *master.*  
**Student Seminar in Probability: Random walks on groups**, jointly with J. Bertoin, A.-S. Sznitman and W. Werner.  
**Graduate Seminar in Probability: Yang-Mills theory**, jointly with J. Aru, J. Bertoin, A.-S. Sznitman and W. Werner.  
**Percolation Theory**, *master.*
- 2017 **Probability on transitive graphs**, *master.*  
**Graduate Seminar in Probability: Zeros of analytic functions**, jointly with J. Aru, J. Bertoin, A.-S. Sznitman and W. Werner.  
**Percolation and Ising model**, *master.*  
**Student Seminar in Probability: Boolean functions**, *bachelor*, jointly with P. Nolin and A.-S. Sznitman.

### UNIVERSITÉ DE GENÈVE (1st year and 2nd year students)

- 2016 **TA Analysis 2.**  
**TPS**, *weekly oral exams for 1st year students.*

2015 **TA Analysis 1.**  
*TPS, weekly oral exams for 1st year students.*

ENS LYON (3rd year students)

2013 **TA Probability Theory.**  
**Introduction to  $\LaTeX$ .**

2012 **TA Integration.**  
**TA Probability Theory.**  
**Introduction to  $\LaTeX$ .**  
**Reading group “random fractals”, jointly with C. Garban.**

2011 **TA Introduction to probability, TA Integration.**

## ADMINISTRATIVE DUTIES

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2021-present Member of the committee for the Nachdiplomvorlesung,  
ETH Zürich.

2022 Organizer of the FIM workshop “Percolation and random fields”,  
together with H. Duminil-Copin.

2021 Organizer of the Young Researchers Symposium session “Statistical Mechanics and  
Random Structures”,  
together with A. Knowles.

2021 Organizer of the Oberwolfach workshop “Spatial Networks and Percolation”,  
together with N. Gantert, J. Komjathy, P. Mörters.

2020-present Organizer of the international webinar “Percolation today”,  
together with H. Duminil-Copin and T. Hutchcroft.

2019 Organizer of the thematic session “percolation”,  
41th Stochastic Processes and their Applications Conference, Northwestern University.

2018-19 Member of the Committee for the Hermann Weyl Instructorship (postdoc),  
ETH Zürich.

## TALKS

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INVITED LECTURES (research level courses and mini-courses)

2020 Master Class in Mathematical Physics, Zurich, Switzerland.

2019 XV Congreso Latinoamericano de Probabilidad y Estadística, Merida, Mexico.

2017 XI Escola Brasileira de Probabilidade, IMPA, Brazil.

2016 Workshop on statistical mechanics, Les Diablerets.

2015 Journée Hypathie, Lyon.  
Summer School: Probability on graphs and groups, Lausanne.

INVITED TALKS

2021 International congress on Mathematical Physics, Speaker as prize recipient.  
Joint Israeli Probability Seminar (online).  
Oxford Discrete Maths and Probability Seminar (online).  
Ohio Combinatorics Seminar (online).

2020 Colloquium at Swissmap general Meeting, Gstaad, Switzerland.

2019 Recent advances in loop models and height functions, Fribourg, Switzerland.  
20th Workshop on Stochastic Geometry, Stereology and Image Analysis, Sandbjerg Es-  
tate, Denmark.

- Workshop Random walks and Polymers, Domaine des Treilles, France.
- 2018 Austria Summer School in Probability and Mathematical Physics, Vienna, Austria.  
Probability Seminar, Université P. Sabatier, Toulouse.  
Probability Seminar, ZHAW Munich/TU Munich.  
Strongly Correlated Random Interacting Processes, Oberwolfach, Germany.
- 2017 Marc Kac seminar, Utrecht, Netherlands.  
Elegance in Probability, Tel Aviv university, Israël.  
XI Escola Brasileira de Probabilidade, IMPA, Brazil.  
Journées probabilités, Aussois.  
Probability seminar, UPMC, Paris.  
STAR Workshop on Random Graphs, Utrecht.
- 2016 School and Workshop on Random Interacting Systems, University of Bath.  
Theoretical Foundations for Statistical Network Analysis: Graph Limits and Statistics, Cambridge.  
Probability Seminar, IMPA, Rio de Janeiro.  
Journée arbres et cartes, Université Paris 13.  
Inhomogeneous Random Systems, Institut Henri Poincaré, Paris.
- 2015 Swissmap general meeting, Engelberg.  
Oberwolfach Workshop : Scaling Limits in Models of Statistical Mechanics.  
4th stochastich geometric days, Poitiers.  
Probability Seminar, Institut Joseph Fourier, Grenoble.  
Two-Dimensional statistical mechanics, Les Diablerets.
- 2014 Séminaire "Groupes et Géométrie", Université de Genève.  
Probability seminar, ETH Zurich.  
Workshop on First-Passage Percolation, Cabo Frio, Rio de Janeiro.  
SPA Session: percolation theory and related processes, Buenos Aires.  
Workshop: topics in Random Media, Santiago, Chili.  
Workshop ANR MAC2 : Two-Dimensional Random Critical Models, Paris.  
Two-Dimensional statistical mechanics, Les Diablerets.
- 2013 Journée de Probabilités Lyon-Genève, Université de Genève.  
Probability seminar, IMPA, Rio de Janeiro.  
XVII Escola Brasileira de Probabilidade, Mambucaba, Rio de Janeiro.  
29e Colóquio Brasileiro de Matemática, IMPA, Rio de Janeiro.  
Séminaire des Élèves, ENS Paris.  
Probability Seminar, Université de Nancy.
- 2012 Séminaire de probabilités, ENS Lyon.  
Young European Probabilists, Eurandom, Eindhoven.

## SHORT AND LONG TERM VISITS

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- 2016 **Isaac Newton institute**, Cambridge (2 weeks).  
Participant to the program "Theoretical Foundations for Statistical Network Analysis"  
**IMPA**, Rio de Janeiro (3 weeks).
- 2015 **Princeton University**, Princeton (3 weeks).  
**IHP**, Paris (2 weeks).  
**Isaac Newton institute**, Cambridge (1 month).  
Participant to the program "Random Geometry"
- 2014 **IMPA**, Rio de Janeiro (2 weeks).

**Weizmann institute**, Israël (2 weeks).  
2013 **Max Planck institute**, Bonn (1 week).  
**IMPA**, Rio de Janeiro (1 month (February) + 2 months (July–September)).