

CURRICULUM VITÆ

Tristan ROBERT

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Curriculum Vitæ

Current situation

2021- **Maître de conférence** (~associate professor), Université de Lorraine, Nancy (France)

Previous employment

2020-2021 **Agrégé préparateur** (~assistant professor), ENS Rennes (France)

2019-2020 **Postdoctoral Fellow**, Universität Bielefeld (Germany), CRC Project 1283 “Taming uncertainty and profiting from randomness and low regularity in analysis, stochastics and their applications”
Mentor: Sebastian Herr

2018-2019 **Postdoctoral Fellow**, The University of Edinburgh (UK), ERC Project no. 637995 “ProbDynDispEq”
Mentor: Tadahiro Oh

2015-2018 **PhD**, *On the Cauchy problem for some nonlinear dispersive PDEs*, Université de Cergy-Pontoise (France)
Advisor: Nikolay Tzvetkov

Education

2014-2015 **Master’s Degree**, *PDEs*, Université Paris-Sud (France)

2014 **Agrégation de mathématiques** (French teaching diploma)

2011-2014 **Studies at École Normale Supérieure de Rennes**, (France)

Research activities

Publications and preprints

Preprints

- [12] *Invariant Gibbs measure for a Schrödinger equation with exponential nonlinearity* (2021), 60p.
- [11] (with Y. Zine), *Stochastic complex Ginzburg-Landau equation on compact surfaces* (2020), 45p.
- [10] (with T. Oh, N. Tzvetkov, and Y. Wang), *Stochastic quantization of Liouville conformal field theory* (2020), 73p.
- [9] (with T. Oh and N. Tzvetkov), *Stochastic nonlinear wave dynamics on compact surfaces* (2019), 55p.

Published papers

- [8] (with T. Oh and Y. Wang), *On the parabolic and hyperbolic Liouville equations*, Comm. Math. Phys. (2021).
- [7] (with T. Oh, P. Sosoe, and Y. Wang), *Invariant Gibbs dynamics for the dynamical sine-Gordon model*, Proc. Roy. Soc. Edinburgh Sect. A. 68 (2020).
- [6] (with T. Oh and M. Okamoto), *A remark on triviality for the two-dimensional stochastic nonlinear wave equation*, Stochastic Processes and their Applications (2020).
- [5] (with T. Oh, P. Sosoe, and Y. Wang), *On the two-dimensional hyperbolic stochastic sine-Gordon equation*, Stoch. Partial Differ. Equ. Anal. Comput. (2020).
- [4] (with F. Linares, M. Panthee, and N. Tzvetkov), *On the periodic Zakharov-Kuznetsov equation*, Disc. Cont. Dyn. Syst. A 39 (2019), no. 6, 3521–3533.
- [3] *Remark on the semilinear ill-posedness for a periodic higher order KP-I equation*, C. R. Math. Acad. Sci. Paris 356 (2018), no. 8, 891–898.
- [2] *On the Cauchy problem for the periodic fifth-order KP-I equation*, Differential Integral Equations 32 (2019), no. 11-12, 679–704.
- [1] *Global well-posedness of partially periodic KP-I equation in the energy space and application*, Ann. Inst. H. Poincaré Anal. Non Linéaire 35 (2018), no. 7, 1773–1826.

Talks and conferences attended

Talks in conferences

- July 2021 **Analyse Harmonique et EDP**, Université d'Evry (France)
- May 2021 **Schrödinger equations**, Le Croisic (France)
- (Postponed) **Harmonic analysis, stochastics and PDEs**, ICMS Edinburgh
June 2020 (UK)

- September 2019 **New trends in propagation of linear and nonlinear wave phenomena**, *Erice (Italy)*
- April 2019 **Équations aux dérivées partielles aléatoires**, *CIRM, Marseille (France)*
- March 2019 **Journées Jeunes EDPistes**, *IRMAR, Rennes (France)*
- October 2017 **Rencontres doctorales Lebesgue**, *Université Rennes 1 (France)*

Talks in seminars

- January 2022 **Séminaire d'analyse**, *IDP, Tours (France)*
- November 2021 **Groupe de travail en analyse des EDP**, *IECL, Nancy (France)*
- June 2021 **Séminaire MACS**, *ICB, Lyon (France)*
- May 2021 **Séminaire PMEDP**, *LAGA, Paris 13 (France)*
- March 2021 **Séminaire de probabilités**, *IRMAR, Rennes (France)*
- January 2021 **Séminaire ACSIOM**, *IMAG, Montpellier (France)*
- November 2020 **Oberseminar Analysis**, *Universität Bonn (Germany)*
- October 2020 **Journée de rentrée**, *IRMAR, Rennes (France)*
- September 2020 **Séminaire EDP**, *IRMAR, Rennes (France)*
- May 2020 **Groupe de travail "Applications des Mathématiques"**, *ENS Rennes (France)*
- May 2020 **Stochastic analysis seminar**, *Universität Bielefeld (Germany)*
- February 2020 **Séminaire d'analyse**, *Université de Nancy (France)*
- January 2020 **Oberseminar Analysis**, *Universität Bielefeld (Germany)*
- March 2019 **Séminaire d'analyse**, *Université de Nantes (France)*
- February 2019 **Analysis seminar**, *University of Birmingham (UK)*
- July 2018 **Analysis seminar**, *The University of Edinburgh (UK)*
- April 2018 **Séminaire Landau**, *IRMAR, Rennes (France)*

Conferences attended

- January 2021 **Journée Rennes-Nantes d'analyse**, *IRMAR, Rennes (France)*
- January 2020 **Analyse des équations aux dérivées partielles : 11th Itinerant Workshop in PDEs**, *HCM Bonn (Germany)*
- September 2019 **Touch down of stochastic analysis in Bielefeld**, *Universität Bielefeld (Germany)*
- July 2019 **Paths between Probability, PDEs, and Physics**, *Imperial College London (UK)*
- November 2018 **Colloquium "Ondes dispersives et aléatoires"**, *Université de Cergy-Pontoise (France)*

- June 2018 **Nonlinear phenomena in dispersive equations**, *Laboratoire Paul Painlevé, Lille (France)*
- March 2018 **Journées Jeunes EDPistes**, *IECL, Nancy (France)*
- November 2017 **Modélisation et Analyse des phénomènes dispersifs**, *Institut Mathématiques de Bordeaux (France)*
- June 2017 **Conférence "AGM-LPTM : The first 25 years"**, *Université de Cergy-Pontoise (France)*

Other activities

Organization of conferences

- December 2021 **Random Singular PDEs**, *IECL, Nancy (France)*

Supervision

- 2021 **Co-advisor (with I. Bailleul)**, *Hugo Eulry, Master's dissertation*
- 2020 **Co-advisor (with T. Oh)**, *Younes Zine, research internship*

Miscellaneous

Reviewer, *Journal of the American Mathematical Society, Transactions of the American Mathematical Society, Annales Henri Lebesgue, Nonlinearity, Stochastic Partial Differential Equations: Analysis and Computations, Discrete and Continuous Dynamical Systems, Journal of Evolution Equations, Nonlinear Differential Equations and Applications, Communications on Pure and Applied Analysis, Partial Differential Equations and Applications, Entropy*