Léonard Guetta

Postdoc in mathematics

Utrecht University
Utrecht Science Park,
Budapeestlaan 6, Utrecht
✉ l.s.guetta@uu.nl
🌐 https://leoguetta.github.io/

Academic positions

2023 -	**Postdoc position**, *Utrecht University*, Utrecht In the group of Paige North
2021-2023	**Postdoctoral Fellow**, *Max Planck Institute für Mathematik*, Bonn Under the supervision of Viktoriya Ozornova.
2019-2021	**A.T.E.R**, *Université Paris-Cité* Temporary teaching assistant in computer science and mathematics.

Education

2016-2020	**PhD in mathematics**, *Université Paris-Cité*, IRIF laboratory, Paris "Homology of strict ω-categories" under the supervision of François Métayer (Université de Paris) and Clemens Berger (Université de Nice-Sophia Antipolis). Defense held in January 2021.
2014-2016	**Master degree in fundamental mathematics**, *Université de Paris*, Paris Homotopy Theory, Algebraic Topology, Differential Geometry, Algebra, Functionnal Analysis, Mathematical Logic, etc.
2011-2014	**Engineering school**, *ENSTA Paristech*, Paris Specialization in applied Mathematics.

Talks

Jun. 2023	Polygraphic homology of local systems, *Conference in honor of François Métayer's retirement*, Université Paris-Cité, **Invited speaker**
Nov. 2022	Groupoid-valued presheaves as models for homotopy types, *Seminar on higher categories, polygraphs and homotopy*, Université Paris-Cité
Mar. 2022	Homotopy types as ∞-groupoids, *Part of a miniseries "An introduction to homotopy type theory and univalent foundations"*, MPIM Bonn, **Invited speaker**
Sep. 2021	Homology of strict ω-categories and the bubble-free conjecture, *Workshop "Homotopical Algebra and Higher Structures"*, Oberwolfach, **Invited Speaker**
Nov. 2019	Homology of strict ω-categories, *Seminar on Logic and interactions*, Université Aix-Marseille, **Invited Speaker**
Oct. 2019	Homotopy colimits and slices of small categories, *Seminar on higher categories, polygraphs and homotopy*, Université Paris-Cité
Mar. 2018	Non-universality of colimits in the category of strict ω-categories, *Seminar on higher categories, polygraphs and homotopy*, Université Paris-Cité
Feb. 2018	Homology of (1-)categories, *Seminar on higher categories, polygraphs and homotopy*, Université Paris-Cité
Jun. 2017	A few remarks on the acyclic models method, after M. Barr, *Seminar on higher categories, polygraphs and homotopy*, Université Paris-Cité

Publications

Published papers

2021   **Homology of categories via polygraphic resolutions**, *Journal of Pure and Applied Algebra*, Vol. 225, No. 10

2020   **Polygraphs and discrete Conduché ω-functors**, *Higher Structures*, Vol. 4, No. 2

2017   **A unifying approach to the acyclic models method and other lifting lemmas**, *Theory and Applications of Categories*, Vol. 32, No. 25

Preprints

2023   **Homologie polygraphique des systèmes locaux**, *arXiv:2309.10466*
joint work with Georges Maltsiniotis

2023   **Fibrantly induced model structures**, *arXiv:2301.07801*
joint work with Lyne Moser, Maru Sarazola and Paula Verdugo

2022   **Presheaves of groupoids as models for homotopy types**, *arXiv:2209.13346*

Teaching experience

2023-2024   **Lecturer for a course on multivariable analysis at master level**, *University College Utrecht*, Utrecht

2023-2024   **Teaching assistant for Logics for Computer Science at undergraduate level**, *Utrecht University*, Utrecht

2016-2021   **Teaching in computer science at undergraduate level**, *Université Paris-Cité*, Paris

2019-2021   **Teaching in mathematics at undergraduate level**, *Université de Paris*, Paris

Language

French	*Mother Tongue*	**Spanish**	*Elementary*
English	*Fluent*	**German**	*Elementary*