



Piergiorgio Panero, PhD

Mathematician

Doctor in Mathematics, expert in Deformation Theory.

Specialization in Data Science

PERSONAL INFO

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COMPUTER SKILLS

- Python, C++ (Expert)
- R, SPSS, MATLAB (Expert)
- PPoint, Teams, Excel (Expert)
- SQL (Good)
- Tableau, Power BI (Good)
- LaTeX (Expert)

LANGUAGES

- English (fluent, FCE B)
- French (fluent, Delf B2 95/100)
- Italian (native)
- Dutch (intermediate)

SKILLS, METHODOLOGIES

- Team work, self-organization, patterns and structure recognition.
- Waterfall, AGILE, SCRUM, LEAN

WORKING PAPERS

- P. Panero, B. Shoikhet, *A closed model structure on the category of weakly unital dg categories, II*, Theory and Applications of Categories, Vol. 37, 2021, No. 15, p. 388-417
- P. Panero, B. Shoikhet, *The closed model structure on the category of weakly unital dg categories: an addendum*, Theory and Applications of Categories, Vol. 38, 2022, No. 5, p. 135-155
- P. Panero, B. Shoikhet, *The category Θ -2, derived modifications and deformation theory of monoidal categories*, preprint arXiv:2210.01664, soumis

WORK EXPERIENCE

- **Research Scientist, University of Antwerp**
Research in Data Science and Topological Data Analysis. Application and Implementation of algorithms in supervised and unsupervised learning. October 2022 - current
- **Data analysis internship, Brainnest**
Statistical analysis on industrial and medical data sheet. Use of programs R and SPSS, linear regression and ANOVA. September 2022
- **Doctoral experience, University of Antwerp**
Research in Mathematics with experts in the field, author published articles, give talks in international conferences.
- **Chair assistant for "Algebraic Topology", University of Antwerp**
Teaching Mathematics' Master students theory and exercise lessons (26 hours per semester), Spring 2019-2020-2021-2022
- **Teaching assistant, University of Turin**
Teaching Mathematics' and Physics' Bachelor students with exercise lessons in class (150 hours), Fall 2017

EDUCATION

- **PhD in Mathematics**, University of Antwerp; project title: "Weak units, higher operads and deformation of monoidal categories"; supervisors: Boris Shoikhet, Wendy Lowen. 2018 - 2022
- **M.Sc. in Mathematics**, University of Turin. 2016-2018
- **Summer school in Topological Data Analysis**, University of Trento, June 2018
- *Visiting student*, Université Paris-Cité, March-May 2018

INTERESTS

- Table tennis player, Hiker
- Literature, Opera