Touchard Pierre

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Employment History

December 2022 – September 2023	**Postdoctoral researcher** at the department of mathematics at the university of KU Leuven. Tutor: Prof. Raf Cluckers.
December 2020 – December 2022	**Postdoctoral researcher** at the department of mathematics and physics of the University of Campania Luigi Vanvitelli, Caserta. Grant: VALERE - Goal. Tutor: Prof. Paola D'Aquino.
September 2016 – December 2019	**Wissenschaftlicher Mitarbeiter (Research assistant)** within the CRC 878 "Groups, Geometry & Actions", Münster.

Scholarship

November 2020 – December 2020	**Oberwolfach Research Fellowship** Research stay at the Mathematisches Forschungsinstitut Oberwolfach.
January 2020 – May 2020	**Kurzstipendien für Doktoranden (Short scholarship for PhD students)** Research visit in UCLA, funded by DAAD. Host: Prof. Chernikov.

Education

2016 – 2020	**Ph.D., University of Münster, Germany** in Model Theory. Thesis title: *On Transfer Principles in Henselian Valued Fields.* Supervisor : Prof. Martin Hils.
2015 – 2016	**Master 2: Mathematical logic and foundations of computer science, University Paris-Diderot, France** . Master thesis: Artin-Schreier extensions in NIP and NTP2 theories. Supervisor : Prof. Martin Hils.
2014 – 2015	**Master 2: Mathematics, training for Agrégation, University of Bordeaux, France**. *Admitted to the Agrégation (French mathematics teaching examination).* National rank: 74.
2013 – 2014	**Master 1: Mathematics for research, University of Bordeaux, France**.
2010 – 2013	**Bachelor's degree in mathematics, University of Poitiers, France.**

Teaching & Conference Organisation

February 2023 - June 2023	**Advisor** of three bachelor thesis on model theory of chains.
December 2019 – December 2022	**Co-tutor** of the PhD thesis of Anna De Mase. Advisor: Prof. Paola D'Aquino.
Winter 2022	**Organiser** of the logic seminar of Caserta.
September 2022	**Local-organizer** of the conference "Aila 2022: XXVII Incontro Di Logica", Caserta.
June 2022	**Local-organizer** of the conference "Model Theory and Applications 2022", Cetraro.
Summer 2022	**Co-Organiser** of the logic seminar of Caserta.
Winter 2021/22	**Co-organiser** of a reading group on 'Enriched Modules'.

Teaching & Conference Organisation (continued)

Summer 2021	▌	**Mini-course** on Classification Theory.
Winter 2019/20	▌	**Assistant** for a student seminar on 'Metastable theories'.
Summer 2019	▌	**Assistant** for a student seminar on continuous logic.
Winter 2018/19	▌	**Tutor** for a Master course "Logic III" on NIP theories.

Research Publications

Preprint

1 Meir, N., Papadopoulos, A., & **Touchard**, P. (2023). Generalised indiscernibles in products of structures [in preparation].

2 Linzi, A., & **Touchard**, P. (2022). On the hyperfields associated to valued fields [e-print:2211.05082, arXiv].

3 **Touchard**, P. (2022). Stably embedded ordered abelian groups [in preparation].

4 **Touchard**, P. (2021). Transfer principles in valued vector spaces [e-print:2111.15516, arXiv].

5 **Touchard**, P. (2020a). Burden in henselian valued fields [e-print:1811.08756, arXiv, To appear in APAL].

6 **Touchard**, P. (2020b). Stably embedded submodels of henselian valued fields [e-print:2005.02363, arXiv, To appear in AFML].

Thesis

1 **Touchard**, P. (2020c). *Transfer principles in henselian valued fields* (Doctoral dissertation). University of Münster.

Talks

14/09/2022	▌	**Aila Meeting 2022: Incontro di Logica** **Title**: Ax-Kochen-Ershov principles for valued abelian structures
27/05/2022	▌	**Logic Seminar, University of Pisa** **Title**: Stably Embedded Ordered Abelian Groups
25/03/2022	▌	**Second Graduate students' workshop on algebra, logic and analysis, University of Szczecin** **Title**: Stably Embedded Ordered Abelian Groups
13/01/2022	▌	**BPGMTC 2022 - (Online)** **Title**: Relative Quantifier Elimination in Valued Vector Spaces
01/11/2021	▌	**Padova-Szczecin online seminar** **Title**: On Model Theory of the RV-sort of Valued Fields
30/09/2021	▌	**Logic Seminar, Naples** **Title**: On Model Theory of Valued Vector Spaces and their Skeletons
15/04/2021	▌	**Logic Seminar, Caserta** **Title**: On Stably Embedded Submodels

Talks (continued)

17/12/2020 🔖 **Logic Seminar, Caserta**
Title: Burden and reduction principles for pure short exact sequences of abelian groups.

14/02/2020 🔖 **Logic Seminar, UCLA**
Title: Burden in pure short exact sequences of abelian groups.

24/10/2019 🔖 **Oberseminar Model theory, University of Münster**
Title: Burden in pure short exact sequences of abelian groups.

25/09/2019 🔖 **DMV-Jahrestagung 2019, Karlsuher Institut für Technologie**
Title: Ax-Kochen-Ershov principle and classification of theories of Henselian valued fields.

01/06/2019 🔖 **Graduate students' workshop on algebra, logic and analysis, University of Szczecin**
Title: Henselian valued fields and their RV-sorts.

18/04/2019 🔖 **Oberseminar Model theory, University of Münster**
Title: Stably embedded elementary submodels and Henselian valued fields.

17/01/2019 🔖 **British PostGraduate Model Theory Conference 2019, Manchester University**
Title: Burden in Henselian valued fields.

30/11/2018 🔖 **Münster-Düsseldorf Seminar GeSAMT, University of Münster**
Title: Burden in mixed characteristic Henselian valued fields.

03/05/2018 🔖 **Oberseminar Model theory, University of Münster**
Title: Henselian valued fields, burden and RV-sorts.

19/12/2016 🔖 **Oberseminar Model theory, University of Münster**
Title: Henselian valued fields of equicharacteristic 0 and inp-minimality.