

SEBASTIEN VASEY

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Employment

- **Harvard University**—Boston
(July 2017-June 2020 (exp)) *Benjamin Peirce assistant professor.*

Education

- **Carnegie Mellon University**—Pittsburgh
(Aug. 2012-May 2017) *Ph.D. in Mathematical Sciences (thesis advisor: Rami Grossberg).
Thesis: Superstability and categoricity in abstract elementary classes (572 pages).*
- **Carnegie Mellon University**—Pittsburgh
(Aug. 2011-May 2012) *Master exchange year (was the only EPFL master student selected to go).*
- **Swiss Federal Institute of Technology (EPFL)**—Lausanne
(Sep. 2008-June 2011) *B.Sc. in “Systèmes de communication” (ranked first out of 27 students).*

Papers

1. Sebastien Vasey, *Indiscernible extraction and Morley sequences* Notre Dame Journal of Formal Logic **58** (2017), no. 1, 127–132.
2. Will Boney, Rami Grossberg, Alexei Kolesnikov, and Sebastien Vasey, *Canonical forking in AECs*, Annals of Pure and Applied Logic **167** (2016), no. 7, 590–613.
3. Sebastien Vasey, *Forking and superstability in tame AECs*, The Journal of Symbolic Logic **81** (2016), no. 1, 357–383.
4. Will Boney and Sebastien Vasey, *Tameness and frames revisited*, The Journal of Symbolic Logic **83** (2017), no. 3, 995–1021.
5. Sebastien Vasey, *Infinitary stability theory*, Archive for Mathematical Logic **55** (2016), nos. 3–4, 562–592.
6. Sebastien Vasey, *Building independence relations in abstract elementary classes*, Annals of Pure and Applied Logic **167** (2016), no. 11, 1029–1092.
7. Will Boney and Sebastien Vasey, *Chains of saturated models in AECs*, Archive for Mathematical Logic **56** (2017), no. 3, 187–213.
8. Sebastien Vasey, *Shelah’s eventual categoricity conjecture in universal classes: part I*, Annals of Pure and Applied Logic **168** (2017), no. 9, 1609–1642.
9. Rami Grossberg and Sebastien Vasey, *Equivalent definitions of superstability in tame abstract elementary classes*, 24 pages. Accepted by The Journal of Symbolic Logic.
10. Monica VanDieren and Sebastien Vasey, *Symmetry in abstract elementary classes with amalgamation*, Archive for Mathematical Logic **56** (2017), no. 3, 423–452.

11. Sebastien Vasey, *Shelah's eventual categoricity conjecture in tame AECs with primes*, 16 pages. Accepted by Mathematical Logic Quarterly.
12. Sebastien Vasey, *Building prime models in fully good abstract elementary classes*, 15 pages. Accepted by Mathematical Logic Quarterly.
13. Will Boney, Rami Grossberg, Michael Lieberman, Jiří Rosický, and Sebastien Vasey, *μ -Abstract elementary classes and other generalizations*, Journal of Pure and Applied Algebra **220** (2016), no. 9, 3048–3066.
14. Sebastien Vasey, *Downward categoricity from a successor inside a good frame*, Annals of Pure and Applied Logic **168** (2017), no. 3, 651–692.
15. Will Boney and Sebastien Vasey, *A survey on tame abstract elementary classes*, 84 pages. To appear in Beyond First Order Model Theory (José Iovino ed.), CRC Press.
16. Sebastien Vasey, *Shelah's eventual categoricity conjecture in universal classes: part II*, Selecta Mathematica **23** (2017), no. 2, 1469–1506.
17. Sebastien Vasey, *Saturation and solvability in abstract elementary classes with amalgamation*, Archive for Mathematical Logic **56** (2017), nos. 5–6, 671–690.
18. Will Boney and Sebastien Vasey, *Good frames in the Hart-Shelah example*, 24 pages. Submitted.
19. Sebastien Vasey, *Toward a stability theory of tame abstract elementary classes*, 33 pages. Submitted.
20. Will Boney, Rami Grossberg, Monica VanDieren, and Sebastien Vasey, *Superstability from categoricity in abstract elementary classes*, Annals of Pure and Applied Logic **168** (2017), no. 7, 1383–1395.
21. Sebastien Vasey, *Quasiminimal abstract elementary classes*, 17 pages. Accepted by Archive for Mathematical Logic.
22. Sebastien Vasey, *On the uniqueness property of forking in abstract elementary classes*, 10 pages. Accepted by Mathematical Logic Quarterly.
23. Michael Lieberman, Jiří Rosický, and Sebastien Vasey, *Universal abstract elementary classes and locally multipresentable categories*, 14 pages. Submitted.
24. Sebastien Vasey, *Tameness from two successive good frames*, 25 pages. Submitted.
25. Michael Lieberman, Jiří Rosický, and Sebastien Vasey, *Internal sizes in μ -abstract elementary classes*, 25 pages. Preprint.

Research visits

- (October 2017) Rutgers University - one week.
- (March 2017) Masaryk University - one week.
- (September 2016) Rutgers University - one week.
- (November 2015) Harvard University - one week.
- (October 2015) University of Illinois at Chicago - one week.

Teaching Experience

- **Harvard University**
(July 2017-present)

- Instructor for **multivariable calculus**.
- **Carnegie Mellon University**
(*Aug. 2012-Aug. 2014, Jan. 2016-May 2017*)
 - Sole instructor for **concepts of mathematics**.
 - Teaching assistant for the following courses: **concepts of mathematics** (three times), **differential and integral calculus** (twice).
 - Grader for the following courses: **set theory, basic logic**.
- **Swiss Federal Institute of Technology (EPFL)**
(*Sep. 2010-June 2011*)
 - Undergraduate teaching assistant for the following courses: **discrete structures, information technology project, advanced topics in programming**.

Honors

- (April 2017) **Guy C. Berry graduate research award**. Given annually since 2005 by the Mellon College of Science. This is the first time the prize was given to a mathematics student.
- (Sep. 2014-Dec.2015) **Doc.Mobility fellowship** from the Swiss National Science Foundation. Covered tuition and stipends for three semesters.
- (2014-2017) **Nine Association for Symbolic Logic travel grants**.
- (2008) **Gold medal at the Swiss Olympiad in Informatics**, qualified for and attended the International Olympiad in Informatics (IOI).

Invited Talks

- ASL 2018 Winter Meeting (with JMM): plenary talk (January 2018).
- Seminář z algebry, Masaryk University (March 2017).
- Northeast Regional Model Theory Day, New York City (March 2017).
- Cornell Logic Seminar (March 2016).
- Rutgers Logic Seminar (December 2015).
- Harvard Logic Colloquium (November 2015).
- University of Illinois at Chicago Logic Seminar (October 2015).
- 2015 JMM: special session on beyond first order model theory (January 2015).
- Miniconference on beyond first order before the 2015 JMM (January 2015).
- University of Maryland Logic Seminar (November 2014).
- City University of New York Model Theory Seminar (October 2014).
- NIMS, S. Korea Classification Theory Workshop (August 2014).

Contributed Talks

- Harvard logic seminar (September 2017).
- ASL 2017 Annual North American meeting (March 2017).

- Workshop on set-theoretical aspects of the model theory of strong logics, CRM Barcelona (September 2016).
- Logic Colloquium 2016 (August 2016).
- ASL 2016 Annual North American meeting (May 2016).
- ASL 2015 Annual North American meeting (March 2015).
- Logic Colloquium 2014 (July 2014).
- Madison Graduate Student Conference in Logic (April 2014).
- Seven series of talks at the Carnegie Mellon University Model Theory Seminar.
- One talk at the Carnegie Mellon University Logic Seminar.
- Seven talks at the Carnegie Mellon University Graduate Student Seminar.
- One talk at the Carnegie Mellon University Math club.

Languages

- **French** (native), **English** (advanced), **German** (intermediate).

Service

- Reviewer for Mathematical Reviews.
- Referee for Acta Analytica, the Israel Journal of Mathematics, the Journal of Mathematical Logic, and Logical Methods in Computer Science.

Memberships

- (2012-present) Association for Symbolic Logic.
- (2012-present) American Mathematical Society.