

**Employment**

January 2017 - :	Post-doctoral fellow, University of Bonn
August 2015 - December 2016:	Post-doctoral fellow, Max Planck Institute for Mathematics, Bonn
February 2012 - June 2015:	Assistant, University of Fribourg Courses: Mathematical methods for computer scientists Analysis III and IV
March 2008 - May 2011:	Analyst, Mercer, Arnhem
January 2007 - December 2007:	Student assistant, Radboud University, Nijmegen Courses: Electricity and Magnetism 1A (Spring) Calculus 1 and 2 (Fall) Probability theory (Fall)
November 2005 - June 2007:	Tutor Mathematics and Physics, Huiswerkinstituut Lindholt, Nijmegen
April 2003 - September 2005:	Cashier, Albert Heijn de Voorhof, Lelystad

**Education**

June 2011 - June 2015:	Doctoral studies in Mathematics, University of Fribourg Advisor: Hugo Parlier
September 2008 - March 2011:	MSc. Mathematics <i>cum laude</i> , Radboud University Nijmegen
September 2005 - September 2009:	BSc. Physics and Astronomy, Radboud University Nijmegen Minor: Mathematics
September 1999 - July 2005:	Atheneum, SG Lelystad

**Longer research visits**

March 2017:	IHP, Paris
November 2014 - May 2015:	Visiting Graduate Student, Brown University
March 2013:	Erwin Schrödinger Institute for Mathematics and Physics, Vienna

**Accepted papers**

- B. Petri. *Hyperbolic surfaces with long systoles that form a pants decomposition*.  
Proc. Amer. Math. Soc., to appear, 2017+  
Available at ArXiv e-prints (1609.00632).
- H. Baik, D. Bauer, I. Gekhtman, U. Hamenstädt, S. Hensel, T. Kastenholz, B. Petri  
& D. Valenzuela. *Exponential Torsion Growth for Random 3-Manifolds*.  
Int. Math. Res. Notices. IMRN, to appear, 2017+  
Available at ArXiv e-prints (1607.00631).
- B. Petri. & C. Thäle. *Poisson approximation of the length spectrum of random surfaces*.  
Indiana Univ. Math. J., to appear, 2017+  
Available at ArXiv e-prints (1605.00415).
- P. Cahn, F. Fanoni & B. Petri. *Mapping class group orbits of curves with self-intersections*.  
Israel J. Math., to appear, 2017+  
Available at ArXiv e-prints (1603.00846).

- B. Petri & A. Walker. *Graphs of large girth and surfaces of large systole*.  
Math. Res. Lett., to appear. 2017+.  
Available at ArXiv e-prints (1512.06839).
- H. Parlier & B. Petri. *The genus of curve, pants and flip graphs*.  
Discrete Comput. Geom., to appear, 2017+  
Available at ArXiv e-prints (1410.7910).
- B. Petri. *Finite length spectra of random surfaces and their dependence on genus*.  
J. Topol. Anal., 9 (4): 649 - 688, 2017
- B. Petri. *Random regular graphs and the systole of a random surface*.  
J. Topol., 10 (1): 211 - 267, 2017.

### Preprints

- B. Petri. *Counting non-commensurable hyperbolic manifolds and a bound on homological torsion*.  
Preprint, ArXiv e-prints (1709.01873), September 2017.

### Grants

- Swiss NSF Mobility in project grant PP00P2\_128557, November 2014-May 2015
- CSWM Continued education grant, March 2013

### Organization

- Geometric Group Theory in Bonn II, Dec 3-4, 2015.

### Languages

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|----------|----------------|
| Dutch:   | Native speaker |
| English: | Fluent         |
| French:  | Good           |
| German:  | Basic          |