

# Blanche Buet

ATER

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## Jobs

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- Since September 2014: **ATER** at the *Institut Camille Jordan* (Université Claude Bernard Lyon 1, France).
- September 2011–August 2014 : **PhD student** at the *Institut Camille Jordan* (Université Claude Bernard Lyon 1, France).
- September 2007–August 2011 : **Élève normalienne** at the *ÉNS Lyon* (Mathematics Department), France.

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## Education

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- **2014 : PhD thesis in Mathematics**, *Université Claude Bernard Lyon 1, France*.  
Under the supervision of **Simon Masnou** (Lyon 1) and **Gian Paolo Leonardi** (Modena), at the *Institut Camille Jordan*, defended on December 12th.  
Title: *Surface approximation by discrete varifolds: representation, rectifiability, curvature*.  
Doctoral committee: Guy DAVID (reviewer), Gian Paolo LEONARDI (advisor), Simon MASNOU (advisor), Petru MIRONESCU, Hervé PAJOT, Giandomenico ORLANDI (reviewer), Édouard OUDET (reviewer) and Alain TROUVÉ.
- **2011: Master in mathematics**, *ÉNS Lyon* and *Université Claude Bernard Lyon 1*, France.
- **2010: Agrégation de mathématiques** (Competitive exam for recruiting teachers), rank 56, *ÉNS Lyon*, France.
- **2008: Bachelor in mathematics**, *ÉNS Lyon*, France.
- **2005: Baccalauréat**, *Pertuis*, France.

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## Publications and oral communications

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- **Publications, Preprints with peer review process**
  - *Quantitative conditions of rectifiability for varifolds*, BUET Blanche, arxiv: <http://arxiv.org/abs/1409.4749> (2014), accepted for publication in *Annales de l'Institut Fourier*.
  - *Discrete varifolds: a unified framework for discrete approximations of surfaces and mean curvature*, BUET Blanche, LEONARDI Gian Paolo, MASNOU Simon, accepted for *SSVM 2015*.
  - *Varifolds and Generalized curvature*, BUET Blanche, in ESAIM Proceedings, vol.42, December 2013, p.1-9.
- **Articles in preparation**
  - *Regularization of the first variation of varifolds*, BUET Blanche, LEONARDI Gian Paolo, MASNOU Simon, in preparation.
  - *Recovering measures from approximate values on balls*, BUET Blanche, LEONARDI Gian Paolo, in preparation.
- **International conferences**

- October 2014: Talk at the workshop *Shape and Topological Optimization* (Linz, Austria).
- June 2014: Poster price during the conference *Curves and Surfaces 2014* (Paris, France).

- **National conferences and seminars**

- February 2015: Talk at the *XXV Convegno Nazionale di Calcolo delle Variazioni* (Levico, Italy)
- December 2014: Talk at the *PhD Students' seminar*, Lyon.
- March 2014: Talk at the *Analysis seminar* (Modena, Italy).
- March 2014: Talk at the seminar of *ANR Geometrya*, Orsay.
- February 2014: Talk at the seminar of *Calculus of variations research group*, Grenoble.
- November 2012: Attended the *Week Maths-Entreprises* in Lyon. Report available: <http://hal.archives-ouvertes.fr/hal-00780582>.
- September 2012: Talk at the *Journées de l'équipe MMCS*, Lyon.

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## Teaching

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- Since September 2014: **ATER** at the *Université Claude Bernard Lyon 1*, France.
  - 2014–2015:
    - \* Weekly oral examinations in Analysis I and Algebra I, 1<sup>st</sup> year undergraduate (advanced students) (24h);
    - \* Exercices sessions in Analysis II 1<sup>st</sup> year undergraduate (2×36h).
- September 2011–août 2014: **monitrice** at the *Université Claude Bernard Lyon 1* (Mathematics department).
  - 2013–2014:
    - \* Exercices sessions in Analysis IV, 2<sup>nd</sup> year undergraduate (advanced students) (45h);
    - \* Weekly oral examinations in Analysis I and Algebra I, 1<sup>st</sup> year undergraduate (advanced students) (8h).
  - 2012–2013 :
    - \* Weekly oral examinations in Analysis I and Algebra I, 1<sup>st</sup> year undergraduate (advanced students) (24h);
    - \* Exercices sessions in Analysis II, 1<sup>st</sup> year undergraduate (36h).
  - 2011–2012 :
    - \* Exercices sessions in Analysis II, 1<sup>st</sup> year undergraduate (36h);
    - \* Exercices sessions in Optimization, 1<sup>st</sup> year of Master SITN (Master Statistics, Informatics and Numerical Techniques) (18h);
    - \* Weekly oral examinations in Differential equations, 3<sup>rd</sup> year undergraduate (24h).

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## Periods spent abroad

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- September 2013–December 2013: I spent 3 months at the *Maths Department of Modena* (Italy) to work with my advisor Gian Paolo LEONARDI.
- June 2008–July 2008: I spent 6 weeks at the *Poncelet laboratory in Moscow* (Russia) for a Bachelor internship supervised by Victor PRASOLOV.

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## Other skills

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- **Languages** : **French** mother tong, **English** fluent, notions of **Spanish** and **Italian**.
- **Computer Technical Skills** : C++, Matlab-Scilab, Latex.