

# Curriculum Vitæ

## Sébastien Godillon

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### Personal situation

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born on September 10, 1979 at Saint-Amand-Montrond (France)  
French citizen, civil union without children  
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<http://math1a.bcpsthoche.fr/>

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### Positions held

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*sept. 2014 -* : Teacher in Classe préparatoire BCPST1, Lycée Hoche in Versailles  
*Sept. 2012 - Dec. 2013*: Postdoctoral research fellow, University of Barcelona (Spain)  
*Jan. 2012 - Aug. 2012*: Research and teaching assistant, University of Cergy-Pontoise  
*Sept. 2011 - Dec. 2011*: Postdoctoral research fellow, Chinese Academy of Sciences in Beijing (China)  
*Jan. 2011 - Aug. 2011*: Research and teaching assistant, University of Cergy-Pontoise  
*Sept. 2010 - Dec. 2010*: Postdoctoral research fellow, Chinese Academy of Sciences in Beijing (China)  
*Oct. 2009 - Aug. 2010*: Research and teaching assistant, University of Cergy-Pontoise  
*Jan. 2009 - Sept. 2009*: Marie Curie early stage research fellow, University of Roskilde (Denmark)  
*Dec. 2005 - Dec. 2008*: Ph.D. student and teaching assistant, University of Cergy-Pontoise

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### Education and Academic degrees

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*2005-2010*: **Ph.D. in Mathematics**, University of Cergy-Pontoise  
*2004-2005*: Master's degree in Analysis, Geometry, and Dynamical Systems, University of Cergy-Pontoise  
*2003-2004*: **Agrégation of Math.** (French compet. exam. for high level teaching), Paris-Sud 11 University in Orsay  
*2000-2003*: Bachelor's degree in Pure Mathematics, Paris-Sud 11 University in Orsay  
*1998-2000*: Classe préparatoire MP\* (French intensive undergraduate studies), Lycée Pothier in Orléans  
*1997-1998*: Classe préparatoire MPSI (French intensive undergraduate studies), Lycée Dessaignes in Blois  
*1996-1997*: Baccalauréat of Sciences (French academic qualification), Lycée A. Thierry in Blois

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### Works and Publications

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*Published articles:*

- “**On McMullen-like mappings**” (joint with A. Garijo)  
Journal of Fractal Geometry, Vol. 2-3 (2015), pp. 249-279 ([arXiv:1403.2420](https://arxiv.org/abs/1403.2420))
- “**Wandering domains for composition of entire functions**” (joint with N. Fagella and X. Jarque)  
Journal of Mathematical Analysis and Applications, Vol. 429-1 (2015), pp. 478-496 ([arXiv:1410.3221](https://arxiv.org/abs/1410.3221))
- “**A family of rational maps with buried Julia components**”  
Ergodic Theory and Dynamical Systems, Vol. 35-6 (2015), pp. 1846-1879 ([arXiv:1304.3881](https://arxiv.org/abs/1304.3881))
- “**Introduction to Iterated Monodromy Groups**”  
Annales de la faculté des sciences de Toulouse, Vol. 21-S5 (2012), pp. 1069-1118 ([arXiv:1403.0899](https://arxiv.org/abs/1403.0899))

*Ph.D. thesis:*

- “**Construction of rational maps with prescribed dynamics**” (HAL-TEL:00796874)  
defended on May 12, 2010 at the University of Cergy-Pontoise in front of a committee composed of  
Tan Lei (advisor) | Cui Guizhen (referee) | A. Chéritat | C. L. Petersen  
M. Zinsmeister (supervisor) | J. H. Hubbard (referee) | F. Germinet | S. van Strien

*Master's thesis:*

- “**Etude des rayons conformes au centre des composantes hyperboliques**”  
defended on 2005 at the University of Cergy-Pontoise under the supervision of Tan Lei

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## Conference talks and short courses

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- Apr. 2014:* Talk “**On McMullen-like mappings**”  
First meeting of the project LAMBDA, École des Ponts ParisTech in Marne-la-Vallée
- Oct. 2013:* Talk “**Bishop’s examples of wandering domains in Eremenko-Lyubich’s class**”  
Conference “Top. and Comb. Prob. in 1D Compl. Dyn.”, Res. Center Ennio de Giorgi in Pisa (Italy)
- Oct. 2013:* Short course “**Wandering under Bishop’s trees**” joint with X. Jarque  
Conference “Maps with essential singularities”, Conference Center of Holbæk (Denmark)
- Jun. 2013:* Talk “**From quasiconformal foldings to entire functions (following C. J. Bishop)**”  
Spring School “Topics in Complex Dynamics”, University of Barcelona (Spain)
- Jul. 2012:* Talk “**A family of rational maps with buried Julia components**”  
Conference “Int. Conf. on Diff. Eq. and Appl.”, Casa Convalescència in Barcelona (Spain)
- Oct. 2011:* Short course “**Introduction to Iterated Monodromy Groups**”  
Working Group “Complex dynamics”, Chinese Academy of Sciences in Beijing (China)
- Apr. 2009:* Talk “**Examples of dynamics on components of disconnected Julia sets**”  
Conference “Holomorphic day”, Technical University of Copenhagen (Denmark)
- Oct. 2007:* Talk “**From a Hubbard tree to a rational map with disconnected Julia set**”  
Conference ‘Symbolic dynamics in complex dynamics’, Conference Center of Holbæk (Denmark)
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## Seminar talks

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- Apr. 2014:* Seminar “Complex dynamics” (COOL), Institut Henri Poincaré in Paris
- Mar. 2014:* Working Group “Analysis and dynamical systems”, University of Orléans
- Feb. 2014:* Seminar “Dynamical systems”, University of Liverpool (England)
- Feb. 2014:* Seminar “Complex dynamics” (COOL), Institut Henri Poincaré in Paris
- Jan. 2014:* Seminar “Complex dynamics”, University of Pisa (Italy)
- Nov. 2013:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Nov. 2013:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Sept. 2013:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Jul. 2013:* Seminar “Dynamical systems”, Rovira i Virgili University of Tarragona (Spain)
- Jun. 2013:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Jan. 2013:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Dec. 2012:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Nov. 2012:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Oct. 2012:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Sept. 2012:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Mar. 2012:* Seminar “Geometry, topology and dynamical systems”, University of Strasbourg
- Feb. 2012:* Seminar “Complex dynamics”, University of Barcelona (Spain)
- Jan. 2012:* Working Group “Analysis and dynamical systems”, University of Orléans
- Dec. 2011:* Seminar “Dynamical systems and complex analysis”, University of Nanjing (China)
- Mar. 2011:* Seminar “Mathematics Ph.D. students”, University of Cergy-Pontoise
- Feb. 2011:* Working Group “Analysis and dynamical systems”, University of Orléans
- Dec. 2010:* Working Group “Complex dynamics”, Chinese Academy of Sciences in Beijing (China)
- Jun. 2010:* Seminar “Probability and ergodic theory”, University of Amiens
- May 2010:* Seminar “Mathematics Ph.D. students”, University of Cergy-Pontoise
- Jan. 2010:* Seminar “Dynamical systems and geometry”, University of Angers
- Nov. 2009:* Seminar “Complex dynamics” (COOL), Institut Henri Poincaré in Paris
- Mar. 2009:* Conference “Conformal structures and dynamics”, University of Warwick (England)
- Feb. 2009:* Seminar “Complex dynamics”, University of Roskilde (Denmark)
- Jan. 2009:* Seminar “Complex dynamics”, Technical University of Copenhagen (Denmark)
- Oct. 2008:* Seminar “Complex dynamics” (COOL), Institut Henri Poincaré in Paris
- Oct. 2008:* Seminar “Ergodic theory and dynamical systems”, Paris 13 University in Villetaneuse
- Apr. 2008:* Seminar “Geometry and dynamical systems”, University of Cergy-Pontoise
- Jan. 2008:* Seminar “Complex dynamics” (COOL), Institut Henri Poincaré in Paris
- Jan. 2008:* Seminar “Geometry and dynamical systems”, University of Cergy-Pontoise
- Dec. 2007:* Seminar “Mathematics Ph.D. students”, University of Cergy-Pontoise
- Sept. 2007:* Seminar “Complex dynamics” (COOL), Institut Henri Poincaré in Paris
- Jan. 2007:* Seminar “Complex dynamics” (COOL), Institut Henri Poincaré in Paris
- Oct. 2006:* Seminar “Complex dynamics” (COOL), Institut Henri Poincaré in Paris
- Jul. 2006:* Seminar “Mathematics Ph.D. students”, University of Cergy-Pontoise
- Jun. 2006:* Seminar “Complex dynamics” (COOL), Institut Henri Poincaré in Paris

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## Conferences attended

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- May 2014*: “Journées dynamiques holomorphes”, University of Angers  
*Jun. 2012*: “Groupes auto-similaires et groupoïdes hyperboliques”, University of Orléans  
*Jun. 2011*: “Journée dynamique” in honor of M. Flexor, Paris-Sud 11 University in Orsay  
*Jun. 2011*: “Workshop on polynomial matings”, Paul Sabatier University of Toulouse III  
*Apr. 2011*: “Journée de dynamique holomorphe”, École Polytechnique in Palaiseau  
*Dec. 2010*: “International Congress of Chinese Mathematicians”, Tsinghua University in Beijing (China)  
*Dec. 2009*: “Journées dynamiques”, Paul Sabatier University of Toulouse III  
*Oct. 2009*: “Maps with more than one singular value”, Conference Center of Holbæk (Denmark)  
*Sept. 2009*: “Conformal structures and dynamics”, Conference Center of Będlewo (Poland)  
*Jun. 2009*: “Advances in low dimensional dynamics”, Stony Brook University (United States)  
*Dec. 2008*: “Journées de dynamique complexe”, Mathematical Institute of Jussieu in Paris  
*May 2008*: Congress in memory of A. Douady, Institut Henri Poincaré in Paris  
*Feb. 2008*: “Teichmüller spaces and iterative Thurston’s algorithm”, University of Cergy-Pontoise  
*Jun. 2007*: “Rencontres de systèmes dynamiques”, University of Lille I  
*Dec. 2006*: “Journées de systèmes dynamiques”, Paris-Sud 11 University in Orsay  
*Oct. 2006*: “Currents and bifurcation loci in complex dynamics”, Conference Center of Holbæk (Denmark)  
*May 2006*: “Disques de Siegel et aire d’ens. de Julia” in honor of A. Douady, University of Cergy-Pontoise  
*Oct. 2005*: “Dynamique des applications polynomiales”, Mathematical Institute of Jussieu in Paris  
*Oct. 2005*: “Vector fields and quad. diff. in complex dynamics”, Conference Center of Holbæk (Denmark)  
*Jun. 2005*: “Dyn. conforme et géom. hyperbolique” in honor of J. H. Hubbard, CIRM in Marseille  
*Apr. 2005*: “Sur les exemples de Lattès”, University of Rennes I

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## Teachings

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- 2015-* : Mathematics in Classe préparatoire (BCPST1, 12hpw Lecture and Tutorial)  
Khôlles of Math. (oral exam. in Classe prépa.), Lycée Hoche in Versailles (BCPST1, 3hpw)  
Khôlles of Math. (oral exam. in Classe prépa.), Lycée Hoche in Versailles (BCPST2, 2hpw)
- 2014-* : Mathematics in Classe préparatoire (BCPST1, 12hpw Lecture and Tutorial)  
Khôlles of Math. (oral exam. in Classe prépa.), Lycée Hoche in Versailles (BCPST1, 3hpw)
- 2nd sem. 2011-2012*: Oral trainings for the Agrégation of Mathematics (graduate students, ≈15h)  
“Mathematics 2” (1st year undergraduate English-speaking students, 24h Lecture)  
“Mathematics for Sciences 2” (1st year undergraduate students, 42h Tutorial)
- 2nd sem. 2010-2011*: Oral trainings for the Agrégation of Mathematics (graduate students, ≈15h)  
“Mathematics 2” (1st year undergraduate English-speaking students, 24h Lecture)  
“Mathematics for Sciences 2” (1st year undergraduate students, 42h Tutorial)
- 2nd sem. 2009-2010*: Oral trainings for the Agrégation of Mathematics (graduate students, ≈15h)  
Supervisor of a teaching internship (3rd year undergraduate students)  
“Linear and Bilinear Algebra” (2nd year undergraduate students, 36h Tutorial)  
Khôlles of Math. (oral exam. in Classe prépa.), Lycée Saint-Louis in Paris (BCPST1, ≈20h)
- 1st sem. 2009-2010*: “Further studies in Analysis” (3rd year undergraduate students, 36h Tutorial)  
“Mathematics for Sciences 1” (1st year undergraduate students, 42h Tutorial)
- 1st sem. 2008-2009*: “Further studies in Analysis” (3rd year undergraduate students, 36h Tutorial)  
“Mathematics 1” (1st year undergraduate students, 36h Tutorial)
- 2nd sem. 2007-2008*: Oral preparations for Agrégation in Mathematics (graduate students, ≈15h)  
*1st sem. 2007-2008*: “Analysis in  $\mathbb{R}^n$ ” (2nd year undergraduate students, 36h Tutorial)
- 2nd sem. 2006-2007*: “Sequences and Series” (2nd year undergraduate students, 36h Tutorial)  
*1st sem. 2006-2007*: “Mathematics 1” (1st year undergraduate students, 36h Tutorial)
- 2nd sem. 2005-2006*: “Mathematics for Sciences 2” (1st year undergraduate students, 36h Tutorial)  
*1st sem. 2005-2006*: “Mathematics for Sciences 1” (1st year undergraduate students, 24h Tutorial)
- 2nd sem. 2004-2005*: Academic coaching in Mathematics (1st year undergraduate students, ≈20h)

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## Popular sciences

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- May 2012:* Introductory talk (SMF and Animath) about the logistic map and chaos theory, Lycée Michelet in Vanves
- Mar. 2012:* Warm-up talks (Animath) about the brachistochrone curve and calculus of variations, Lycées H. Matisse in Montreuil, and J.-B. Corot in Savigny-sur-Orge
- Mar. 2011:* Warm-up talks (Animath) about the Riemann zeta function and number theory, Lycées H. Matisse in Montreuil, and Michelet in Vanves
- Mar. 2008:* Participant of the MATH.en.JEANS congress, University of Paris Diderot 7
- 2007-2008:* Supervisor of true mathematical research workshops for pupils (MATH.en.JEANS), Collèges Maubuisson in Bessancourt, A. Malraux in Louvres, and F. Mauriac in Louvres
- Jun. 2007:* Poster presentation for an event around Wendelin Werner, City Hall of Paris
- May 2007:* Poster presentation for the week of research and innovation, General Council of Val d'Oise
- Mar. 2007:* Contributor and participant of the MATH.en.JEANS congress, University of Cergy-Pontoise
- 2006-2007:* Supervisor of true mathematical research workshops for pupils (MATH.en.JEANS), Collèges A. Malraux in Louvres, and F. Mauriac in Louvres
- 2005-2006:* Participant of an interdisciplinary workshop on fractals, University of Cergy-Pontoise
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## Community service activities

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- 2009-* : Referee works for several scientific journals in Mathematics
- 2006-2010:* Ph.D. representative in the doctoral school of Economics and Mathematics of West Paris
- 2007-2009:* Founder member and treasurer of the Ph.D. students association, University of Cergy-Pontoise
- 2006-2008:* Organizer of the Mathematics Ph.D. students seminar, University of Cergy-Pontoise
- 2006-2008:* Treasurer of the Table Tennis association club in Vineuil
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## Other work experiences

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- Jul. 2004 :* Mail carrier in Vineuil ( $\approx 50$ h)
- Jul. 2004 :* Bank teller at the Banque Postale in Vineuil ( $\approx 100$ h)
- Aug. 2003 :* Mail carrier in Couddes ( $\approx 150$ h)
- Jul. 2003 :* Mail carrier in Contres ( $\approx 150$ h)
- 2002-2003 :* Restaurant employee at the Café des Sports of the Paris-Sud 11 University in Orsay ( $\approx 400$ h)
- Aug. 2002 :* Mail carrier in Couddes ( $\approx 150$ h)
- Jul. 2002 :* Mail carrier in Chémery ( $\approx 150$ h)
- Aug. 2001 :* Mail carrier in Couddes ( $\approx 150$ h)
- Jul. 2001 :* Bank teller at the Banque Postale in Contres ( $\approx 150$ h)
- Aug. 2000 :* Mail carrier in Couddes ( $\approx 150$ h)
- Jul. 2000 :* Bank teller at the Banque Postale in Fougères-sur-Bièvre ( $\approx 150$ h)
- Aug. 1999 :* Mail carrier in Couddes ( $\approx 150$ h)
- Jul. 1999 :* Bank teller at the Banque Postale in Fougères-sur-Bièvre ( $\approx 150$ h)
- 1998-2002 :* Mail sorter in Blois ( $\approx 200$ h day shift and  $\approx 400$ h night shift)
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## Miscellaneous

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- Human languages:* French, English
- Computer languages:* LaTeX/BibTeX/Beamer, HTML/CSS/JavaScript, C/C++, Java
- Hobbies:* Cooking, Juggling, Reading
- French car driving license*