

CURRICULUM VITAE

Dr François Genoud
Born on September 23, 1978
Swiss Citizen
Alma Mater: EPFL (Lausanne)

Delft Institute of Applied Mathematics
Delft University of Technology
Mekelweg 4
2628 CD Delft, The Netherlands

EDUCATION

- 2005-2008** PhD in Mathematics under the supervision of Prof. C.A. Stuart, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
Thesis: *Théorie de bifurcation et de stabilité pour une équation de Schrödinger avec une non-linéarité compacte*
- 2004-2005** MSc in Physics under the supervision of Prof. C.-E. Pfister, EPFL
Thesis: *Around the theorem of Whittaker–Shannon–Kotel'nikov*
- 2002-2003** One year exchange program at ETH Zurich, Switzerland
- 2000-2005** Undergraduate studies in Physics at EPFL

EMPLOYMENT

- 2015-** Assistant Professor Tenure Track in Analysis, Delft University of Technology, Delft, The Netherlands
- 2013-2014** Postdoctoral Researcher on the ERC Advanced Grant *Nonlinear Studies of Water Flows with Vorticity* held by Prof. A. Constantin, University of Vienna, Austria
- 2010-2013** Research Associate, Heriot–Watt University, Edinburgh, Scotland
- 2009-2010** Prospective Research Fellow of the Swiss National Science Foundation, OxPDE, Mathematical Institute, University of Oxford, England
- 2005-2008** Teaching and Research Assistant, Department of Mathematics, EPFL
- 2001-2005** Teaching Assistant, Departments of Physics, Mathematics, and Cours de Mathématiques Spéciales, EPFL

TEACHING EXPERIENCE

- 2016/2017** *Functional Analysis* for Dutch Mastermath Programme, *Calculus I* at TU Delft
- 2015/2016** *Functional Analysis* for Dutch Mastermath Programme, *Calculus I* at TU Delft
- 2014/2015** *Spectral Theory* and *Linear Algebra* at TU Delft
- 2013/2014** Mini-course *Bifurcation et Stabilité pour NLS* at Université Lille 1, France
- 2012/2013** Instructor for the MSc course *Dynamical Systems* at Heriot–Watt University
- 2011/2012** Instructor for the MSc course *Fractals and Chaos* at Heriot–Watt University

2005-2008 Teaching Assistant at EPFL for students in Physics (P), Mathematics (M), Life Sciences (LS), and the Cours de Mathématiques Spéciales (CMS) — involved in :

Calculus and Real Analysis (LS, 1 semester)

Vector and Complex Analysis (P, 6 semesters)

Methods of Mathematical Physics (P, 3 semesters)

Functional Analysis (M & P, 3 semesters)

Co-advisor for 2 MSc research projects (M)

External referee for the EPFL admission exam (CMS)

2001-2005 Teaching Assistant at EPFL for students in Physics (P), Mathematics (M), and the Cours de Mathématiques Spéciales (CMS) — involved in :

Probability and Statistics (P, 2 semesters)

Quantum Physics (P, 1 semester)

Physics (CMS, 1 semester)

Analytic Geometry (CMS, 1 semester)

Calculus and Real Analysis (CMS, 5 semesters)

Lecture notes for the course *Real Analysis* (M)

2004/2005 Mathematics teacher at the Gymnase Cantonal de Nyon (high school), Vaud, Switzerland (6 weeks, full time)

RESEARCH VISITS

(upcoming) 1 week at Université Paris 13, France, invited by Thomas Duyckaerts, May 2017

(upcoming) 1 week at Université Paul Sabatier, Toulouse, France, invited by Stefan Le Coz, May 2017

1 month at Université Paul Sabatier, Toulouse, France, invited by Stefan Le Coz, May 2016

1 week at University of Pisa, Italy, invited by Vladimir Georgiev, April 2016

2 days at University of Rome La Sapienza, Italy, invited by Eugenio Montefusco, April 2015

3 days at University of Pisa, Italy, invited by Vladimir Georgiev, April 2015

1 week at the Ludwig Maximilian University of Munich, Germany, invited by Sven Bachmann, May 2014

1 month as Invited Researcher at Université Lille 1, France, invited by Stephan De Bièvre and Vianney Combet, September-October 2013

3 days at Université Paris 13, France, invited by Thomas Duyckaerts, September 2013

1 week at Université Toulouse 1 Capitole, France, invited by Ann Derlet, June 2013

3 days at Université Lille 1, invited by Vianney Combet, April 2013

1 week at Université Toulouse 1 Capitole, invited by Ann Derlet, November 2012

1 week at University of California, Davis, USA, invited by Sven Bachmann, June 2012

ACADEMIC DISTINCTIONS

CIMI research grant ‘NoWave’, held jointly with Stefan Le Coz, €13,700, 2017–2019

Van Gogh travel grant ‘Nonlinear Waveguides’, €2,240, 2017

Prospective Research Fellowship of the Swiss National Science Foundation, CHF65,000, 2009–2010

EDITORIAL ACTIVITIES

Reviewer for zbMATH

Referee for the following journals :

Annali di Matematica Pura ed Applicata; Boundary Value Problems; Communications in Contemporary Mathematics; Differential and Integral Equations; Electronic Journal of Qualitative Theory of Differential Equations; European Journal of Mathematics; Journal of Differential Equations; Journal of Dynamical and Control Systems; Mathematical Methods in the Applied Sciences; Mathematica Scandinavica; Nonlinearity; Nonlinear Analysis; Proceedings A of the Royal Society of London; Proceedings A of the Royal Society of Edinburgh; Rostocker Mathematisches Kolloquium

ORGANIZATION OF SCIENTIFIC ACTIVITIES

Analysis Colloquium, TU Delft, 2016/2017

11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, USA, 1–5 July 2016: special session ‘Nonlinear Waves in Dispersive Equations’

NDE (Nonlinear Dispersive Equations) Seminar, TU Delft, Autumn–Spring 2015/2016

Conference on Variational and Topological Methods in the Study of Nonlinear Problems, Besançon, France, 29 June–1 July 2015

10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, 7–11 July 2014: special session ‘Analytical Aspects of the Dynamics of Nonlinear Schrödinger Equations’

GAP (Geometry, Analysis and Physics) Seminar, University of Vienna, jointly with the Vienna University of Technology, Summer Semester 2014

INVITED TALKS IN CONFERENCES AND WORKSHOPS

BeNeLuX Mathematical Congress, Amsterdam, Netherlands, March 2016

Nordic Congress of Mathematicians, Stockholm, March 2016

Nonlinear Phenomena in Optics: Theory and Experiments, Besançon, France, November 2015

Besançon Colloquium on Dispersive PDE’s and Related Problems, Besançon, January 2015

Workshop on Dispersive Equations with Nonlocal Dispersion III, Wolfgang Pauli Institute, Vienna, October 2014

Thirteenth International Conference Zaragoza–Pau on Mathematics, Jaca, Spain, September 2014

Mathematical Aspects of the Physics with Non-Self-Adjoint Operators, ICMS, Edinburgh, March 2013

Twelveth International Conference Zaragoza–Pau on Mathematics, Jaca, Spain, September 2012

Variational and Topological Methods: Theory, Applications, Numerical Simulations, and Open Problems, Northern Arizona University, Flagstaff, USA, June 2012

Equadiff 2011, Loughborough, England, August 2011

Eleventh International Conference Zaragoza–Pau on Mathematics, Jaca, Spain, September 2010

Emerging Problems in Nonlinear Analysis and Differential Equations: Advances in Theory and Applications, University of Glasgow, Scotland, June 2010

INVITED SEMINAR TALKS

Seminar, Vrije Universiteit, Amsterdam, Netherlands, June 2016

Seminar, Eindhoven University of Technology, Netherlands, June 2016

Séminaire MIP, Université Paul Sabatier, Toulouse, May 2016

Dynamic Analysis Seminar, University of Amsterdam, Netherlands, February 2016

Analysis Lunch Seminar, Leiden University, Netherlands, June 2015

Analysis Colloquium, TU Delft, Netherlands, May 2015

Seminar on Nonlinear Differential Problems, University of Rome La Sapienza, Italy, April 2015

Seminar, University of Pisa, Italy, April 2015

Quantenmechanik und Mathematische Physik, LMU, Munich, Germany, May 2014

Séminaire d'Analyse, EPFL, Lausanne, Switzerland, May 2014

Séminaire Physique Mathématique et EDP, Université Paris 13, France, September 2013

Séminaire AN-EDP, Université Lille 1, France, April 2013

Séminaire du CeReMath, Université Toulouse 1 Capitole, France, November 2012

Séminaire MIP, Université Paul Sabatier, Toulouse, November 2012

PDE Seminar, University of California, Davis, USA, June 2012

Applied Analysis Seminar, University of Strathclyde, Glasgow, March 2012

Analysis Seminar, University of Birmingham, England, February 2012

Séminaire d'Analyse Non-linéaire, Free University of Brussels, Belgium, December 2011

Analysis Seminar, Jiao Tong University, Shanghai, China, March 2011

PDE Seminar, East China Normal University, Shanghai, February 2011

Analysis Seminar, Heriot–Watt University, November 2010

PDE Seminar, University of Bath, England, February 2010

Séminaire d'Équations aux Dérivées Partielles, Université de Besançon, France, February 2010
Lunchtime Seminars of OxPDE, Mathematical Institute, University of Oxford, January 2010
Séminaire du CeReMath, Université Toulouse 1 Capitole, November 2009
Séminaire de Mathématiques et Applications, Université de Pau, France, November 2009
OxPDE Day, Mathematical Institute, University of Oxford, November 2009
Lunchtime Seminars of OxPDE, Mathematical Institute, University of Oxford, March 2009
Séminaire de Physique Mathématique, Institut Fourier, Grenoble, France, January 2009
Talks in Mathematical Physics, ETH Zurich, June 2007

LIST OF INTERNATIONAL COLLABORATORS

Sven Bachmann, Ludwig Maximilian University, Munich (Germany)
Jacopo Bellazzini, University of Sassari (Italy)
Stephan de Bièvre, Université Lille 1 (France)
Vianney Combet, Université Lille 1 (France)
Ann Derlet, Haute Ecole Robert Schuman (Belgium)
Vladimir Georgiev, University of Pisa (Italy)
David Henry, University College Cork (Ireland)
Stefan Le Coz, Université Paul Sabatier, Toulouse (France)
Boris Malomed, Tel Aviv University (Israel)
Benedetta Pellacci, Parthenope University of Naples (Italy)
Simona Rota Nodari, Université de Bourgogne, Dijon (France)
Julien Royer, Université Paul Sabatier, Toulouse (France)
Bryan Rynne, Heriot-Watt University (Scotland)
Charles Stuart, EPFL (Switzerland)
Rada Maria Weishäupl, University of Vienna (Austria)