

# CURRICULUM VITAE OF EVA UHRE

Ph.D. in Mathematics, specialization in Holomorphic Dynamical Systems

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Born: September 4, 1975 Nationality: Danish

Languages:

Danish (native)

English (fluent)

French (good)

Spanish (reasonable)

## Academic employments

- (Spring term 2010)

- Research assistant DNRF centre “glass and time”, Roskilde University, on the project “NVU Dynamics”, characterizing properties of viscous liquids in terms of their constant potential energy hypersurfaces.

- Teaching assistant Technical University of Denmark.

- (2009) Postdoctoral position, Institut de Mathématiques, Université Paul Sabatier, Toulouse, France, February – September.

- (2005) Marie-Curie Fellowship at Universitat Autònoma de Barcelona, the Dynamical Systems group, February – May, with travel grants from Augustinus Fonden and Oticon Fonden.

- (2004–08) Ph.D. Student at Roskilde University, under the research training program “Mathematical Modelling and its Mathematical Foundations”, November 2004 – September 2008.

## Education

- (2008) Ph.D. degree in Mathematics, Roskilde University, thesis defended December 19, 2008. Title: “On the Parabolic lines  $Per_1(e^{2\pi ip/q})$  in the Moduli Space of Quadratic Rational Maps”.

- (2006) Participation in the thematic program “Holomorphic Dynamics, Laminations and Hyperbolic Geometry” at the Fields Institute, Toronto, March 2006.

- (2004) Master’s degree (cand. scient.) in Mathematics and Physics, from Roskilde University, October 26, 2004. Title of master’s thesis: “Construction of a Holomorphic Motion in Part of the Parameter Space for a Family of Quadratic Rational maps”.

- (2003 – 2004) Guest student in Paris, with stays at Institut Henri Poincaré, Université Paris VI (“Trimestre Systèmes Dynamiques”, September–November 2003) and Institut des Hautes Études Scientifiques, with travel grants from Nordea Danmark Fonden and Hans Hansen & Andrea Hansens uddannelseslegat (2003) and from Observator mag.scient. Julie Marie Vinter Hansens Rejselegat and Oticon Fonden (2004).

## Relevant conferences, summerschools etc.

- Conferences on Holomorphic Dynamics with a contributed talk:

- (2010) “Dynamics of Rational Maps on the Riemann Sphere”, University of Warwick, 22 – 25 March, 2010, invited speaker.

- (2009) “Advances in Low Dimensional Dynamics”, Stony Brook University, New York, invited speaker.
  - (2008) “Trends and Developments in Complex Dynamics”, Mathematisches Forschungsinstitut Oberwolfach.
  - (2007) “On symbolic Dynamics in Complex Dynamics”, Sømimestationen, Roskilde University.
  - (2007) CODY opening conference, University of Warwick, England.
  - (2005) Spring school at Universitat de Barcelona.
  - (2004) “Holomorphic Motions in Complex Dynamics”, Sømimestationen, Roskilde University.
- Participation in several workshops and conferences on complex dynamics, at Sømimestationen (Roskilde University), University of Warwick, Institut Henri Poincaré, Université de Cergy–Pontoise, Paris and the Fields Institute, Toronto.
  - (2004) AMS-IMS-SIAM Summer Research Conference “Complex Dynamics: 25 Years After the Appearance of the Mandelbrot Set”, Salt Lake City, Utah.
  - (2001–2003) Danish Mathematical Society’s summerschools.

## Publications

1. “Construction of a Holomorphic Motion in Part of the Parameter Space for a Family of Quadratic Rational maps”, preprint, Tekster fra Imfufa, tekst nr. 438, 2004.
2. “On the Parabolic lines  $Per_1(e^{2\pi ip/q})$  in the Moduli Space of Quadratic Rational Maps”, Ph.D thesis, Roskilde University, september 2008.
3. “Obstructions to Parabolic Quadratic Rational Maps”, in Mathematisches Forschungsinstitut Oberwolfach Report No. 48/2008, p.2712–2714.
4. “A model for the parabolic slices  $Per_1(e^{2\pi ip/q})$  in moduli space of quadratic rational maps”, submitted 2009.
5. (with A. L. Epstein) “Limits of Polynomial–like Hyperbolic Components of Quadratic Rational Maps”, manuscript in preparation, 2010.
6. (with C. L. Petersen) “Stars in attracting basins”, manuscript in preparation, 2010.
7. “The structure of parabolic slices  $Per_1(e^{2\pi ip/q})$  in moduli space of quadratic rational maps”, manuscript in preparation, 2010.

## Teaching

- Teaching assistant Mat 2 (Differential equations and series), Department of Mathematics, Technical University of Denmark, spring 2010.
- BASE, a first year’s course on mathematical modelling, primarily using differential equations, Roskilde University, fall 2005 and fall 2006.
- Teaching assistant BASE, Roskilde University, fall 2001 – spring 2002.
- Teaching assistant first year’s calculus, Roskilde University, fall 2000.

## Miscellaneous

- Have given talks at seminars at Université Paul Sabatier, Toulouse, University of Copenhagen, the Technical University of Denmark, Roskilde University and Universitat de Barcelona.
- “Nat-dag”, presentations of holomorphic dynamics to high school students, September 2006, March & September 2007, March 2008, Roskilde University.
- “Forskningens døgn”, talk to a general, public audience about holomorphic dynamics, April 2007.
- Member of department council, Roskilde University, January 2005 – September 2006.
- Member of department board, Roskilde University, February 1999 – February 2001.