Curriculum Vitae Eduard Ortega

PERSONAL DATA

Name: Eduard Ortega Esparza
Date of birth: September 11th, 1975.
Citizenship: Spanish
Passport number: 52.594.577.V
Civil status: Married with Toril Redalen.

CONTACT INFORMATION

Home Address:
	Todalsvegen 1420
	6645 Todalen
	Norway

Telephone: +47 46760087

E-mail: eduard.ortega.esparza@gmail.com

ACADEMIC TITLES AND EDUCATION

*   **Graduated in Mathematics**, Universitat Autònoma de Barcelona. 1997.
*   **Postgraduate course in "Applied Mathematics to Industry"**. Universitat Autònoma de Barcelona. 2001.
*   **Master degree in Mathematics**. Universitat Autònoma de Barcelona. Advisor: Pere Ara. Title of thesis: *"The maximal symmetric ring of quotients"*. 2003.
*   **Ph.D. degree**, Universitat Autònoma de Barcelona. Advisor: Pere Ara. Title of thesis: *"The maximal symmetric ring of quotients: path Algebras, incidence algebras and bicategories"*. 2006. The Ph.D. was awarded the European doctorate mention.
*   Teacher Training seminar for PhD students and researchers at NTNU, fall 2011.
*   Title Bergentest, of Norwegian Language.
*   2014- ... Fleksibel Praktisk Pedagogisk Utdanning at NTNU.

LANGUAGES

*   Spanish and Catalan (mother tongues).
*   English (fluent)
*   Danish (medium)
*   Norwegian (fluent) - Bergentest

EMPLOYMENT

- 1997–2000. Senior analyst in E.D.S.
- 2001-2007. Assistant professor (part-time), Universitat Autònoma de Barcelona.
- 2007-2009. Post. Doc., University of Southern Denmark.
- 2009-2010. Post. Doc., University of Copenhagen.
- 2010-2012. Post. Doc., Norges Teknisk-Naturvitenskapelige Universitet.
- 2014-2015. Guest Associate Professor. Norges Teknisk-Naturvitenskapelige Universitet.

OTHER SKILLS

High domain of the following:
- Programming language C++.
- Mathematical text processor: LaTex.
- Computational programs: MathLab, Maple.
- Word, Excel and Powerpoint.

PUBLICATIONS

- *"Rings of quotients of incidence algebras and path algebras"*. J.Algebra **303** (2006), no. 1, 225–243.
- *"Rings of quotients of some infinite dimensional path algebras"*. Acta Math. Hungar. **119** (2008), no. 1-2, 41–55.
- *"Two-sided localization of bimodules"*. Comm. Algebra **36** (2008), no. 5, 1911–1926.
- (with P. Ara and M. Mathieu) *"The maximal C*-algebra of quotients as an operator bimodule"*. Arch. Math. (Basel) **92** (2009), no. 5, 405–413.
- (with M. Rørdam and H. Thiel) *"The Cuntz semigroup and comparison of open projections"*. J. Funct. Anal. **260** (2011), no. 12, 3474–3493.
- (with T.M. Carlsen) *"Algebraic Cuntz-Pimsner Algebraic Cuntz–Pimsner rings"*, Proc. Lond. Math. Soc. (3) **103** (2011), no. 4, 601-653.
- (with F. Perera and M.Rørdam) *"The Corona Factorization Property and refinement monoids"*, Trans. Amer. Math. Soc. **363** (2011), 4505-4525.
- (with F. Perera and M.Rørdam) *"The Corona Factorization Property, Stability, and the Cuntz Semigroup of a C*-algebra"*, Int. Math. Res. Not. (2012) vol. 1, 34-66.
- (with E. Pardo) *"The structure of Crossed products by endomorphism"*, Operator Algebra and Dynamics Nordforsk Network Closing Conference, Faroe Islands, May 2012 Springer Proceedings in Mathematics & Statistics, Vol. 58 Carlsen, T.M.; Eilers, S.; Restorff, G.; Silvestrov, S. (Eds.) 2013.
- (with T.M. Carlsen and E. Pardo) *"Simple Cuntz-Pimsner rings"*, J. Algebra 371 (2012) 367-390.
- (with E.Pardo) *"Purely infinite crossed products by endomorphisms"*, J. Math. Anal. Appl. 412 (2014) 466-477

SELECTED TALKS

- Danish-Norwegian symposium a Operator Algebras, December 2013 Schæffergarden (Oslo). Title:" The Boolean Cuntz-Krieger Algebra".
- Workshop "Graph algebras: Bridges between graph C*-algebras and leavitt algebras" Banff, April 2013. Title: "Simple Cuntz-Pimsner rings".
- Workshop "C*-algebras, Dynamics and classification" Oberwolfach, October 2012. Title: "The p-shift endomorphism and Kirchberg C*-algebras".
- Closing conference Nordsforsk network, May 2012, Gjorv (Faroe Islands). Title: " Purely infinite crossed product C*-algebras and Rokhlin actions".
- Danish-Norwegian symposium a Operator Algebras, December 2011 Lysebu (Oslo). Title:" The Structure of Crossed products by endomorphisms".
- Nordforsk Network Junior Workshop, 15-17 September 2011 Copenhagen. Title:"Structure of the Crossed products by Endomorphism".
- EU-NCG fourth annual meeting, 25-30 April 2011 Bucharest. Title:"Graph C*-algebras and Crossed products by Endomorphism".
- Classification of amenable C*-algebras, 19-24 September 2010 Banff (BIRS). Title:"The Open Projections and the Cuntz semigroup".
- School and Workshop on Topics in operator algebras and some applications, 13-17 September, Madrid. Title:" The Open Projections and the Cuntz semigroup".
- Master Class on the Classification of C*-algebras, 16-27 November 2009, Copenhagen. Title:" The Corona Factorization Property, Stability and the Cuntz Semigroup".
- Danish-Norwegian symposium a Operator Algebras, December 2008 Lysebu (Oslo). Title:" The Corona Factorization Property and Non-stable K-Theory".
- First Annual Meeting in Noncommutative Geometry Network, June 2008, Dublin. Title:" The Maximal C*-algebra of Quotients as an Operator Bimodule".
- Czech-Catalan conference, September 2006, Barcelona. Title:" two-sided localizations and bicatgories".
- International Mediterranean congress of mathematics, February 2005, Almeria. Title:" Rings of quotients of graph algebras".
- 8th Spanish Ring Theory conference, February 2004, Oviedo. Title:" The maximal symmetric ring of quotients".

LONGER VISITS TO OTHER UNIVERSITIES

- 2005: Queen's University Belfast.
- 2009,2010: NTNU, Norway.
- 2011: University of Otago, New Zealand.
- 2011: RIMS, Japan.

OTHER RELEVANT ACTIVITIES

- Organization together with T.M. Carlsen (NTNU) of the Master Class on *"Cuntz-Pimsner algebras: applications and generalizations"*, 5-9 July 2010, Copenhagen.
- Referee of the journal "Communications in Algebra".
- Referee of the journal "Journal of Algebra and Applications".
- Reviewer for Math. Reviews, Zentralblatt.

TEACHING EDUCATION AND EXPERIENCE

I completed the "Teacher Training Seminar for PhD Students and Post Doctoral Research fellows" given at NTNU during fall 2011.

I did lecture in the "Universitat Automa de Barcelona", University of Southern Denmark, University of Copenhagen and NTNU as a main lecturer and as a teaching assistant.

- **Universitat Autonoma de Barcelona**

  Main lecturer:

  - Linear algebra and differential equations, fall 2001.
  - Mat. Intro., fall 2002
  - Calculus II, Spring 2003.
  - Differential calculus in several variables, spring 2006,'07.

  Teaching assistant:

  - Mat. Intro., fall 2001.
  - Calculus I, fall 2001,'02,'03,'04,'06.
  - Calculus II, spring 2002,'03,'04,'05,'06,'07.
  - Statistics, spring 2002,'03,'04,'05,'06,'07.
  - Linear algebra, fall 2003
  - Linear algebra and differential equations, fall 2003,'04,'06.
  - Differential calculus in several variables, spring 2005,'06,'07.

- **Queen's University Belfast**

  Teaching assistant:

  - Ring Theory, fall 2005.

- **University of Southern Denmark**

  Main lecturer and teaching assistant:

  - Mathematical Update 1 (Linear Algebra and Differential Equations), Fall 2007,'08.
  - Introduction to C*-algebras, Spring 2008.
  - Commutative Algebra, Spring 2009.

- **University of Copenhagen**

  Main lecturer:

  - Optimering og Konveksitet (Optimization and Convexity), Fall 2009.

  Teaching assistant:

  - Kommutativ Algebra (Commutative Algebra), Fall 2009.
  - Introduktion til ikke Kommutativ Geometri (Introduction to Non-Commutative Geommetry), Fall 2009.

- **Norges Teknisk-Naturvitenskapelige Universitet (NTNU)**

  Main lecturer:

  - Funksjonalanalyse (Functional Analysis), Spring 2012.
  - Matematikk 4M, Fall 2014.

  Teaching assistant:

  Funksjonalanalyse (Functional Analysis), Spring 2012.