

Housem BOULMEZAOUD

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Born: Feb. 12, 1979, Paris, France.

Citizenship: French.

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Research Interests

DYNAMICAL SYSTEMS, ALGEBRAIC TOPOLOGY, TILING THEORY AND QUASICRISTALS, DIFFERENTIAL GEOMETRY (RIEMANNIAN AND PSEUDO-RIEMANNIAN), MICROLOCAL ANALYSIS, PSEUDO-DIFFERENTIAL OPERATORS, DISCRETE MATHEMATICS.

Professional skills

- 2008-2009** (1 year) **RESEARCH ASSISTANT AND TEACHING ASSISTANT.** UNIVERSITY OF LYON I, FRANCE.
Bachelor's degree
- 2007-2008** (1 year) **RESEARCH ASSISTANT AND TEACHING ASSISTANT.** UNIVERSITY OF LYON I, FRANCE.
Bachelor's degree
- 2006-2007** (1 year) **MATHEMATICS TUTOR.** UNIVERSITY OF LYON I, FRANCE.
Teaching tutor: level Bachelor degree.
- 2003-2004** (1 year) **MATHEMATICS TUTOR.** UNIVERSITY OF PARIS VI, FRANCE.
Distance learning tutor: Bachelor degree and Master's degree.

Publications

PV-COHOMOLOGY AND TILING COHOMOLOGY (IN PREPARATION).

Higher education and diplomas

- 2005-2009** (4 years) **PHD IN MATHEMATICS.** UNIVERSITY OF LYON I, FRANCE.
Title : \mathcal{P} -equivariant Cohomology, Tiling Theory and Quasicristals
▷ *Advisor:* Professor Johannes Kellendonk.
- 2002-2003** (1 year) **MASTER'S DEGREE IN RESEARCH.** UNIVERSITY OF PARIS VI, FRANCE.
Specialization: Analysis, Geometry and Modelling
▷ *Microlocal Analysis of Partial Differential Equations.* ▷ *Differential Systems and Applications.* ▷ *Symplectic Geometry.*
Thesis Topic: Toeplitz Operators.
▷ *Advisor:* Professor Louis Boutet de Monvel.

- 2001-2002**
(1 year) **MAÎTRISE OF PURE MATHEMATICS**(EQUIVALENT TO FIRST YEAR OF MASTERS). UNIVERSITY OF PARIS VI, FRANCE.
Specialization Pure Mathematics.
▷ *Partial Differentials Equations Analysis*. ▷ *Differential Geometry*. ▷ *Complex Analysis in \mathbb{C}^n* . ▷ *Dynamical Systems*.
- 2000-2001**
(1 year) **LICENCE OF PURE MATHEMATICS**(EQUIVALENT TO BACHELOR DEGREE). UNIVERSITY OF PARIS VI, FRANCE.
Specialization Pure Mathematics.
▷ *Measure Theory and Integration of Lebesgues*. ▷ *Topology and Differential Calculus*. ▷ *Complex Analysis in 1-dimensional*. ▷ *Differential Geometry*.
- 1998-2000**
(2 years) **DEUG**(EQUIVALENT TO A TWO-YEAR UNIVERSITY DIPLOMA). UNIVERSITY OF PARIS VI, FRANCE.
Specialization M.I.A.S. (Mathematics, Computing Applied to Sciences).
- 1997-1998** **SCIENTIFIC BACCALAURÉAT**(EQUIVALENT TO SCIENTIFIC HIGH SCHOOL DEGREE). TURGOT HIGH SCHOOL, PARIS, FRANCE.
Specialization Mathematics

Some projects carried out

- 2008**
(03 july-05 july) **PARTICIPANT AND POSTER PRESENTATION**. BIELEFELD UNIVERSITY, GERMANY.
Workshop: Aspects of Aperiodic Order
- 2007**
(10 sept-15 sept) **PARTICIPANT TO COLLOQUIUM**. CIRM, MARSEILLE, FRANCE.
Ordre Apériodique: Nouveaux liens et anciens problèmes revisités
- 2007** **SPEAKER**. SAINT ETIENNE DE TINÉE, FRANCE.
Themes of A.N.R. : CristalDyn.
- 2006**
(Three seminars) **SPEAKER IN INTERNALS SEMINARS**. UNIVERSITY OF LYON I FRANCE.
De Rham and Čech cohomology, \mathcal{P} -equivariant cohomology.
- 2005**
(Feb 26-Mar 10) **PARTICIPANT IN A CONFERENCE CIMPA SCHOOL: INTERNATIONAL CENTRE FOR PURE AND APPLIED MATHEMATICS**. CIMPA-UNESCO-ALGERIA.
Riemannian and Pseudo-Riemannian Geometries and Dynamics and Applications.
- 2003** **PARTICIPANT**. INSTITUT MATHÉMATIQUES DE JUSSIEU, UNIVERSITY OF PARIS VI.
Colloquium of honor of Louis Boutet de Monvel.

Languages

- Arabic-French: Bilingual.
English: Useful working knowledge.

IITS Skills

- Software \LaTeX , Maple, OpenOffice, HTML (Learner).
Operating system Windows XP and Vista, Linux.