

## Mihai Radu STANCU

---

- Date of Birth: July 16th 1976
- Nationality: Romanian
- Languages: Romanian, English, French, Hungarian
- Marital Status: Married
- Address: CNRS UMR 6140 - LAMFA, Université de Picardie  
33, Rue SAINT-LEU, 80039 AMIENS CEDEX 1, France
- Phone: +33664417774
- E-mail: stancu@math.ku.dk
- Webpage: <http://www.math.ku.dk/~stancu/>

## CERTIFICATES and GRADES

---

- Ph. D. degree in Mathematics, University of Lausanne, July 19th 2002
- Masters degree in Mathematics, University of Geneva, June 24th 2000
- Diploma degree in Mathematics, University of Geneva, January 12th 1998
- Certificate in Computer Science, Tudor Vianu High School, Bucharest, June 15th 1995

## ACADEMIC JOBS

---

- Research Fellow in L.A.M.F.A., CNRS UMR 6140, (Université de Picardie) starting October 2008
- Postdoc in Algebra/Topology (University of Copenhagen) September 2007–September 2008
- Zassenhaus Assistant Professor (The Ohio State University) September 2004–August 2007
- Research Scholar and Lecturer in the Mathematics Department (The Ohio State University) April 2003–August 2004
- Teaching Assistant in Mathematics (University of Geneva), April 1998–March 2003

## AWARDS and FELLOWSHIPS

---

- January–March 2008, at MSRI, Berkeley, invited researcher, Program: Representation Theory of Finite Groups and Related Topics.
- April–June 2005, at Bernoulli Center, Lausanne, research fellow, Workshop on Topology, Representation Theory, Cohomology.
- April 2003–August 2004, at The Ohio State University Swiss National Science Foundation's scholar, working with professor Markus Linckelmann on Broué's Conjecture, Splendid Equivalences and Fusion Systems.

## RESEARCH INTERESTS

---

- finite groups, modular representation theory, fusion systems;
- category theory, cohomology, homological algebra;
- $p$ -completed classifying spaces and related topics of algebraic topology;
- implementing GAP functions for working with  $p$ -local finite groups.

## PUBLICATIONS and PREPRINTS

---

- *A Reduction Theorem for Fusion Systems of Blocks* (with Radha Kessar)  
Journal of Algebra 318 (2008), no. 2, pp. 806-823
- *Realizing Fusion Systems* (with Ian Leary)  
Journal of Algebra and Number Theory 1 (2007), no. 1, pp. 17-34
- *Conjectures on Finite and  $p$ -Local Groups* (with Ron Solomon)  
to appear in L'Enseignement Mathématique
- *Control of the Fusion in Fusion Systems*  
Journal of Algebra and its Applications 5 (2006), no. 6, pp. 817-837
- *Almost all Generalized Extraspecial  $p$ -Groups are Resistant*  
Journal of Algebra 249 (2002), pp. 120-126.
- *Propriétés locales des groupes finis*  
Ph.D thesis (French), July 2002
- *Encoding Fusion Data in the Double Burnside Ring* (with Kári Ragnarsson)  
work in progress
- *On the graded center of the stable category of a finite  $p$ -group* (with Markus Linckelmann)  
preprint 2008
- *A characteristic Subgroup for Fusion Systems at Even Prime* (with Silvia Onofrei)  
preprint 2008
- *On Normal Subsystems of Fusion Systems*  
preprint, 2003
- *Equivalent Definitions of Fusion Systems*  
preprint, 2003

## ADMINISTRATIVE RESPONSABILITIES

---

- co-organizer of the Algebra Seminar at The Ohio State University, 2005–2006.
- organizer of a Seminar on Triangulated Categories at The Ohio State University, winter quarter 2006.
- reading course on Group Cohomology, with Kitzeln SIEBERT, Master Student at The Ohio State University, summer quarter 2006.
- member of the jury for the contest 'Undergraduate Research in Science' at The Ohio State University, March 2007.
- member of the selection jury for the Young Mathematician Conference', at Ohio State University, June 2007.
- external expert for the Master Thesis 'Control of Fusion in Fusion Systems' by Lorna Henderson, at University of Aberdeen, September 2008.
- external expert for the Master Thesis 'Les sous-groupes génétiques', by Mélanie Baumann at EPFL, Lausanne, January 2008.
- referee for several journals: Journal of the London Mathematical Society, Journal of Algebra, L'Enseignement Mathématique, Journal of Group Theory.

## CONFERENCES and INVITED TALKS

---

- Representations of Finite Groups, 22 - 28 March 2009, Oberwolfach
- Algebra Seminar, Université de Picardie, 1 October 2008, Amiens, *Sur le centre gradué de la catégorie stable d'un  $p$ -group*
- Algebra/Topology Seminar, University of Copenhagen, 10 August 2008, Copenhagen, *A characteristic subgroup for fusion systems*

- Modules and Representation Theory, Babes-Bolyai University, 7 - 12 July 2008, Cluj, *On the graded center of the stable module category in characteristic  $p$*
- Algebra/Topology Seminar, University of Copenhagen, 15 Mai 2008, Copenhagen, *Schemes, sheaves of modules and cohomology*
- Group Theory Seminar, Ohio State University, 19 March 2008, Columbus, *A characteristic subgroup for fusion systems at even prime*
- Algebra Seminar, University of Washington, 4 March 2008, Seattle, *Fusion Systems via graphs of groups*
- Postdoc Seminar MSRI, 22 February 2008, Berkeley, *Realizing Fusion Systems*
- Séminaire d'algèbre, EPFL, 22 January 2008, Lausanne, *Systèmes de fusion et graphes de groupes*
- Algebra Seminar, University of Aberdeen, 6 December 2007, Aberdeen, *Fusion system and graphs of groups*
- Algebra/Topology Seminar, University of Copenhagen, 30 August 2007, Copenhagen, *Fusion systems inside infinite groups*
- Conference 'Around Broué's conjectures', 28 Mai–1er June 2007, Luminy, *Realizing fusion systems*
- Zassenhaus Group Theory Conference, 16–18 March 2007, Saint Louis, *Searching for Resistant Groups*
- Algebra Seminar, University of Washington, 21 January 2007, Seattle, *Fusion Systems of Blocks and Generalizations*
- AMS National Meeting, 5–6 January 2007, New Orleans, *Control of Fusion and Normal Fusion Subsystems*
- The 28th Ohio State-Denison Mathematics Conference, 19–21 Mai 2006, Columbus, *Fusion Systems of Blocks of Group Algebras*
- Representations of Finite Groups, 26 March–1er April 2006, Oberwolfach
- Workshop on Group Actions and Representation Theory, 11–16 November 2005, Banff, *A Reduction Theorem for Fusion Systems of Blocks*
- Groups, Homotopy and Configuration Spaces, 5–11 July 2005, Tokyo, *Reduction Theorems for Fusion Systems of Blocks*
- Cohomology of Finite Groups: Interactions and Applications, 4–9 September 2005, Oberwolfach
- Workshop on Topology, Representation Theory, Cohomology, Centre Bernoulli, EPFL, 4–10 April 2005, Lausanne. *Exotic Fusion Systems for Blocks*
- Algebra Seminar, University of Georgia, 28 April 2004, Athens, *Control of the Fusion in Fusion Systems*
- AMS Sectional Meeting, Ohio University, 26–27 March 2004, Athens, *Fusion Control in Fusion Systems*
- Group Theory Seminar, Rutgers University, 24 March 2004, New Brunswick, *Resistant Groups*
- Weekend Algebra Meeting, Florida Atlantic University, 7–9 November 2003, Boca Raton, *Fusion Systems over Finite  $p$ -Groups*
- Séminaire d'Algèbre et de Théorie des Nombres, EPFL, 11 October 2003, Lausanne, *Contrôle de la  $p$ -fusion dans les groupes finis*
- Schweizerische Mathematische Gesellschaft, Herbsttagung 18–19 September 2002, Davos, *Local Properties of Finite Groups*

## PROGRAMMING SKILLS

---

- C, Fortran, Pascal, Scheme, Basic
- Maple, Splus, GAP