

CURRICULUM VITAE

LAST NAME : **Mazza** FIRST : **Nadia** MIDDLE : **Paola**

BORN IN : Morges , Switzerland ON : 06.08.1973 (*dd.mm.yyyy*)

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CITIZENSHIPS : Swiss and Italian.

CURRENT AFFILIATION :

Department of Mathematics, University of Georgia, Athens, GA 30602, USA.

QUALIFICATIONS / EDUCATIONAL BACKGROUND

- PhD in Mathematics (Algebra), Spring 2003, Université de Lausanne, Switzerland.
Advisor : Professor Jacques Thévenaz, Université de Lausanne, Switzerland.
Thesis title (French) : *Modules d'endo-permutation.*
- Diplôme de Mathématicien, June 1999, Université de Lausanne, Switzerland.
Advisor : Professor Jacques Thévenaz, Université de Lausanne, Switzerland.
Dissertation title (French) : *Les trois cas de fusion du groupe diédral d'ordre huit.*
- Licence ès Sciences Mathématiques, June 1998, Université de Lausanne, Switzerland.

Remark: The Licence ès Sciences Mathématiques (4 years University studies), together with the Diplôme de Mathématicien (1 year research work with an advisor) have become the present *Bachelor degree*. In 1994, these degrees were required to enter a PhD program.

SYNOPSIS OF RESEARCH INTERESTS

Mathematics Subject Classification: Primary Interest # 20, Secondary Interest # 18.

Modular representations of finite groups.

More precisely: endo-permutation and endo-trivial modules, cohomology of finite groups, (rank) varieties of modules, fusion systems on finite p-groups, subgroup complexes and Quillen category of finite groups.

ACTUAL POSITION HELD

Postdoctoral associate and part-time instructor in Mathematics, at the University of Georgia, Athens, GA, USA.

AWARDS, SCHOLARSHIPS AND GRANTS

- 2006: Pending request of a Marie Curie Intra-European Research Fellowship (January 2006).

- 2006: Pending request of a Fellowships for advanced researchers of the Swiss National Foundation (January 2006).
- 2003: Faculty Award for the “excellence and quality” of Ph.D. Thesis, granted by the “Faculté des Géosciences et de l’Environnement”, Université de Lausanne, Switzerland.
- 2002 – 2003: Research grant of the Swiss National Science Foundation.

Remark: In 2003, one-year research grant of the Swiss National Science Foundation refused, in favour of a three years opportunity to work as a postdoctoral associate and part-time instructor at the University of Georgia.

PUBLICATION LIST

- The Dade group of a metacyclic p -group, *J. Algebra*, 266 (2003) 102–111.
- Endo-permutation modules as sources of simple modules, *J. Group Theory*, 6 (2003) 477–497.
- The Dade group of (almost) extraspecial p -groups, *J. Pure Appl. Algebra*, 192 (2004), no. 1-3, 21–51. *Joint work with Serge Bouc.*
- Varieties of Nilpotent Elements for Simple Lie Algebras I: Good primes, *J. Algebra*, 280 (2004) 719–737. *Joint work with the University of Georgia VIGRE Algebra Group.*
- Varieties of nilpotent elements for simple Lie algebras. II. Bad primes., *J. Algebra* 292 (2005), no. 1, 65-99. *Joint work with the University of Georgia VIGRE Algebra Group.*
- Endotrivial modules for finite groups of Lie type, *J. Reine Angew. Math.*, to appear. *Joint work with Jon Carlson and Dan Nakano.*
- Support varieties for Weyl modules over bad primes, submitted. *Joint work with the University of Georgia VIGRE Algebra Group.*
- The group of endotrivial modules in the normal case, submitted.

ARTICLES IN PROGRESS

- Endotrivial modules for the symmetric groups. *Joint work with Jon Carlson and Dan Nakano.*

TEACHING EXPERIENCE

- Since August 2003 : postdoctoral associate and part-time instructor in Mathematics, at the University of Georgia. Teaching language: English. Classes taught:
 - MATH 8000 – graduate algebra, 1 semester;
 - MATH 2200-2210 – undergraduate calculus I and II (5 semesters).
- October 1998 to July 2003 : assistant of mathematics (equivalent to US teaching assistant), at the University of Lausanne. Teaching language: French.
 - Undergraduate classes:
 - Mathématiques générales – general maths, 2 years;
 - Algèbre linéaire – linear algebra, 5 semesters;
 - Graduate classes:
 - Algèbre I et II – algebra, 2 years;
 - Représentation des groupes – group representation theory, 1 semester;

- Courbes elliptiques – elliptic curves, 1 semester.
- All four month of June between 1999 and 2002 : expert examiner for many maths final exams, of all levels between highschool and undergraduate at university (all in Switzerland). Teaching language: French.
- October 1997 to July 1999 : teacher of mathematics, in the private highschool *Ecole LOGO*, Montreux, Switzerland. Teaching language: German.
- 1996-2001 : about 80-90 days (split into periods of 3 to 20 days) of supply teaching in public schools, from primary to highschool levels. Teaching language: French.
- 1993-2000 : about 8-10 hours/week of tutorial, for teenagers from primary to highschool levels; mainly for sciences, French, English, German.

EXTRAS

- Participations in the Departmental Committee for Qualifying and Oral Exams, 2004-2006, at the University of Georgia.
- Coordinator of the Algebra Seminar, Spring semester 2004, at the University of Georgia.
- Co-coordinator of the Seminar VIGRE, academical year 2005 - 2006, at the University of Georgia.
- Organizer of a weekly Algebra Problem session, Fall semester 2004, at the University of Georgia.

CONFERENCES ATTENDED

- Brauer Conference (Stuttgart, Germany, March 2001)
- Catégories dérivées et groupes finis (Luminy, France, October 2001)
- AMS Summer Research Conference : Groups, Representations and Cohomology (Mount Holyoke, USA, June 2002)*
- LMS Durham Symposia : Representation of finite groups and related algebras (Durham, England, July 2002)*
- Jahreskongress SANW (Davos, Switzerland, 18-19 September 2002)*
- Rencontre Rhône-Alpes (Grenoble, France, 28-30 November 2002)*
- Darstellung endlicher Gruppen (Oberwolfach, Germany, March 23-29, 2003)*
- AMS, Section Meeting (Chapel Hill, North Carolina, October 24-25, 2003)*
- Conference on Groups, Representations and Galois Theory in Honor of Walter Feit (Yale University, New Haven, October 30 – November 2, 2003)*
- Conference on Groups and Representations (Eugene, Oregon, March 24 - 27, 2004)
- AMS Section Meeting (Evanston, Illinois, October 23 - 24, 2004)*
- AMS Joint Mathematics Meeting (Atlanta, Georgia, January 5 - 8, 2005)*
- Group Representation Theory Program, Lausanne, April 2005 ** (2 talks)
- Cohomology of Finite Groups: Interactions and Applications (Oberwolfach, Germany, September 04 - 10, 2005)*
- Representation of Finite Groups (Oberwolfach, Germany, March 26 - April 1, 2006)*

(talk/short-talk given in all the conferences followed buy a “”)*

OTHER COLLOQUIA

- June 2005 : colloquium (in Italian) in the algebra seminar of the Università degli Studi di Palermo, Palermo, Italy.
- March 2004 : colloquium in the algebra seminar of the Ohio-State University, in Columbus, Ohio, USA.
- February - March 2003 : workshop on Alperin and Dade’s conjectures, in Santa Cruz, California, USA. It was organized by R. Boltje and B. Külshammer.

MEMBERSHIP OF PROFESSIONAL ORGANISATIONS

- Since September 2005 : member of the Mathematisches Forschungsinstitut Oberwolfach.
- Since November 2003 : ordinary member of the American Mathematical Society (AMS).

OTHER REMARKS

- Fluent in four languages, namely French, Italian, English and German. Basic notions of Spanish and Creole.
- Language diploma (German) : Zentrale Oberstufenprüfung, Goethe Institut, obtained in June 1997, at the language center of the University of Lausanne.
- May - July 2004 : Short-term volunteer with the Religious of Jesus and Mary, in Haiti.