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Appointments

<i>Oct. 2014 - present</i>	Chargé de recherche CNRS - Université de Rennes 1
<i>Aug. 2011 - Aug. 2014</i>	Assistant Professor (Non Tenure-Track) Vanderbilt University, Nashville, Tennessee, USA
<i>Aug. 2010 - Jul. 2011</i>	Post-doc Max-Planck-Institut für Mathematik, Bonn, Germany

Education

<i>Jun. 2010</i>	Ph.D. Université de Strasbourg, France <i>Advisor</i> : Thomas Delzant <i>Subject</i> : Outer automorphisms of the Burnside groups Member of the European Doctoral College of Strasbourg
<i>Aug. 2007</i>	Master Degree in Mathematics, Université Paris XI, France <i>Courses attended</i> : Differential geometry, Algebraic geometry <i>Master dissertation</i> : Counting functions in hyperbolic groups
<i>Sep. 2003 - Aug. 2006</i>	École Polytechnique, Palaiseau, France (French high-level engineering school)

Awards

Prix de thèse de l'Université de Strasbourg. June 2011.

Publications

- [1] [Asphericity and small cancellation for rotation family of groups](#), *Groups, Geometry, and Dynamics* 5 (2011), no. 4, 729–765
- [2] [Outer automorphisms of free Burnside groups](#), *Commentarii Mathematici Helvetici* 88 (2013), no. 4, pp. 789–811
- [3] [Growth of periodic quotient of hyperbolic groups](#), *Algebraic & Geometric Topology* 13 (2013) 3111–3133
- [4] [On the geometry of Burnside quotients of torsion free hyperbolic groups](#), *International Journal of Algebra and Computation*, Vol. 24, No. 3 (2014) 251–345.
- [5] [A Cartan-Hadamard type result for relatively hyperbolic groups](#), with Curtis Kent and Michael Hull, arXiv 1311.0773, *to appear in Geom. Dedicata*
- [6] [Partial periodic quotient of groups acting on a hyperbolic space](#), arXiv 1311.0855 *to appear in Ann. Inst. Fourier*
- [7] [A criterion for detecting trivial elements of Burnside groups](#), arXiv 1211.4267
- [8] [Growth and order of automorphisms of free groups and free Burnside groups](#), with Arnaud Hilion, arXiv 1309.3981
- [9] [Farrell-Jones via Dehn fillings](#), with Yago Antolín and Giovanni Gandini, arXiv 1510.08113

Selected talks

Conferences

- *Conférence Impacts de la géométrie des groupes*, CIRM, Luminy, France. July 2015
- *Conférence de clôture de l'ANR LAM*, Carcassonne, France. October 2014
- *48th Annual Spring Topology and Dynamics Conference* Richmond, Virginia, U.S.A. March 2014
- *46th Annual Spring Topology and Dynamics Conference* Semi-plenary speaker, Mexico city, Mexico. March 2012
- *Geomery and Analysis of Large Networks*, Vanderbilt University, Nashville, Tennessee, U.S.A. March 2012
- *AMS Meeting Special Session Asymptotic properties of groups*, Tampa, Floride, U.S.A. March 2012
- *Infinite Monster Groups*, Vienna, Austria. December 2011
- *Dynamique - Arithmétique - Combinatoire*, Porquerolles, France. July 2011
- *Parole aux jeunes chercheurs en géométrie du reseau Platon*, Grenoble, France. December 2010
- *Random Groups and Random Graphs*, Bedlewo, Pologne. June 2008

Colloquium

- *Colloquium*, Bar Ilan University, Tel-Aviv, Israel. January 2015
- *Colloquium*, Haifa University, Israel. January 2015
- *Séminaire Bourbaki*, IHP, Paris, France. November 2014

Course for faculty and graduate students

- *Park City Mathematics Institute*, TA for the mini-course by Vincent Guirardel about small cancellation theory and rotation families. Park City, Utah, U.S.A. July 2012.
- *On the Delzant-Gromov approach of Burnside problem*, Vanderbilt University, Nashville, U.S.A. Fall 2011

Recent seminars

- *Séminaire de géométrie différentielle*, Université de Lorraine, Nancy, France. May 2015
- *Ergodic and Geometric Group Theory Seminar*, EPFL, Lausanne, Switzerland. April 2015
- *Séminaire de géométrie et dynamique*, ENS Lyon, France. March 2015
- *Séminaire de géométrie*, Université de Rennes 1, France. March 2015
- *Séminaire Groupes et Géométrie*, Université de Genève, Switzerland. February 2015
- *Groups and Dynamics Seminar*, Hebrew University, Jerusalem, Israel. January 2015
- *Geometry and Topology Seminar*, Technion, Haifa, Israel, January 2015
- *Séminaire d'algèbre et géométrie*, Université de Caen, France. November 2014
- *Séminaire de théorie ergodique*, Université de Rennes 1, France. November 2014
- *Groupes et algèbres d'opérateurs Seminar*, Université de Neuchâtel, Switzerland. October 2014
- *Darboux Seminar*, Université de Montpellier, France. September 2014
- *Group Theory International Webinar*, online seminar organized *Stevens Institute of Technology* Hoboken, New Jersey, U.S.A. March 2014
- *Topology and Group Theory Seminar*, Vanderbilt University, Nashville, Tennessee, U.S.A. October 2013
- *Géométrie, Topologie et Dynamique Seminar*, Université Paris XI, France. June 2013
- *Théorie géométrique des groupes Workshop*, Université Paris XI, France. June 2013
- *Probabilités et Théorie ergodique Seminar*, Université de Rennes, France. June 2013
- *Topology and Group Theory Seminar*, Vanderbilt University, Nashville, Tennessee, USA. January 2013

Conferences attended

- *Non-Positive Curvature & Infinite Dimension*, Institut Élie Cartan, Nancy, France. August 2015.
- *Conférence Impacts de la géométrie des groupes*, CIRM, Luminy, France. July 2015
- *Conférence de clôture de l'ANR LAM*, Carcassonne, France. October 2014
- *Totally Disconnected Groups*, Arbeitsgemeinschaft, Mathematisches Forschungsinstitut Oberwolfach, Germany, October 2014
- *Growth In Groups*, Université de Neuchâtel, Switzerland. June 2014
- *48th Annual Spring Topology and Dynamics Conference* Richmond, Virginia, U.S.A. March 2014
- *Cube complexes and 3-manifolds*, Chicago, Illinois, U.S.A. May 2013.
- *Young geometric group theory II*, Haifa, Israël. February 2013.
- *Conference on Automorphisms of free groups*, Barcelone, Spain. November 2012.
- *Park City Mathematics Institute*, Park City, Utah, U.S.A. July 2012.
- *46th Annual Spring Topology and Dynamics Conference* Semi-plenary speaker, Mexico city, Mexico. March 2012
- *Geometry and Analysis of Large Networks*, Vanderbilt University, Nashville, Tennessee, U.S.A. March 2012
- *AMS Meeting Special Session Asymptotic properties of groups*, Tampa, Floride, U.S.A. March 2012
- *Infinite Monster Groups*, Vienna, Austria. December 2011
- *Dynamique - Arithmétique - Combinatoire* Conference, Porquerolles, France. June 2011
- *Bonner Geometrietage*, Bonn, Germany. April 2011
- *Parole aux jeunes chercheurs en géométrie du réseau Platon* Grenoble, France. December 2010
- *Geometry and Analysis on Graphs and Groups* Oxford, United Kingdom. November 2010
- *Geometric Group Theory, in honor of Karen Vogtmann* Luminy, France. June 2010
- *Geometry, Topology and Computation in Groups* Spring School, Les Diablerets, Switzerland. March 2010
- *Journées ANR de théorie géométrique des groupes*, Strasbourg, France. June 2009
- *Random Groups and Random Graphs*, Bedlewo, Poland. June 2008
- *Groups and Dynamics* Spring School, Les Diablerets, Switzerland. March 2008
- *Rencontre géométrie et probabilités dans les groupes*, Toulouse, France. January 2008
- *CAT(0) Cubical and Systolic Complexes*, Bedlewo, Poland. June 2007

Synergistic Activities

- Coordination of the programm *Geometry and Dynamics* organized by the Labex *Henri Lebesgue* in Spring 2017
- Organization of the *Séminaire de théorie ergodique* in Rennes. Since September 2015.
- Membership in the scientific committee of *Young geometric group theory meeting*, Bedlewo, Poland, January 2012 and Haifa, Israel, January 2013.
- Co-PI for the grant funding US participants to the *Young geometric group theory meeting*, Haifa, Israel, January 2013.
- Reviewer for the Mathematical Review of the AMS, since September 2012.
- Proofreader for the popularization website *Images des mathématiques*.
<http://images.math.cnrs.fr/>
- Elected representative at the Graduate School. May 2009 - Aug. 2010.
- Webmaster for *CIES Alsace* (Teaching Center for graduate students at the universities of Strasbourg and Haute-Alsace). Juil. 2008 - Aug. 2010.
- Co-author of a popular scientific work entitled "*Pourquoi les maths ?*" about interactions between Mathematics and other fields (biology, music, art, economics, etc.).
- Participation to several popularization events such as *La Fête de la Science*.

Languages

- French: mother tongue
- English: written, spoken and read fluently
- German: written, spoken and read fluently
(Zentral Oberstufenprüfung mit der Gesamtnote gut bestanden)

Other activities

- Clarinet (classical, celtic and klezmer music)
- Voluntary work for the non-profit organization *L'enfant @ l'hôpital*.
<http://www.enfant-hopital.org>