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Formation et Postes Académiques

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|-------------|--|
| 09/19– | Professeur, Université Paris-Sud |
| 01/15–08/19 | «Associate Professor», Northeastern University |
| 09/11–12/14 | «Assistant Professor», Ohio State University |
| 07/10–08/11 | «Bonn Junior Fellow»(niveau W2), Universität Bonn |
| 07/08–06/10 | «Wylie Assistant Professor», University of Utah |
| 09/07–06/08 | Postdoc, Hausdorff Center for Mathematics, Bonn |
| 09/06–08/07 | Postdoc, Max-Planck-Institute für Mathematik, Bonn |
| 09/02–08/06 | Doctorat en Mathématiques, SISSA, Trieste |
| 09/98–08/02 | Etudiant en Mathématiques, Università di Genova |

Séjours et Invitations Récents (après 2015)

- 2019 *Séminaires de recherche* : University of Cambridge, Université de Lille. *Conférences* : “Derived Algebraic Geometry and Birational Geometry and Moduli Spaces”, MSRI, Berkeley.
- 2018 *Séminaires de recherche* : University of Massachusetts–Amherst, Università di Torino, Politecnico di Milano, Università di Roma Tre, Institut de Mathématiques de Jussieu, Université de Strasbourg, Universität Bonn, Institut Henri-Poincaré. *Conférences* : “Quiver Varieties, Moduli Spaces, and Applications to Mathematical Physics”, University of Genova; “Cohomology of Algebraic Varieties”, CIRM, Luminy; “Moduli spaces and related Problems”, Shanghai Center for Mathematical Science; “From Algebraic Geometry to Vision and AI: A Symposium Celebrating the Mathematical Work of David Mumford”, Harvard University; “Moduli Spaces in Algebraic Geometry and Applications”, Campinas, Brazil; “Two days of Algebraic Geometry”, Università di Milano; “Giornate di Geometria Algebrica ed Argomenti Correlati XIV”, Università di Genova; “A day of Algebraic Geometry in Savannah”, Georgia Southern University; “School on Birational Geometry of Hypersurfaces”, Gargnano del Garda, Italy (4 conférences); “Korean-Italian Meeting on Algebraic Geometry”, KIAS, Seoul.
- 2017 *Séminaires de recherche* : Università di Roma Tor Vergata, Columbia University, Brown University, Institut de Mathématiques de Jussieu, Università di Roma Sapienza, Université de Lorraine, Université Paris-Sud, University of Texas at Austin, University of Michigan. *Conférences* : “Algebraic Geometry: Birational Classification, Derived Categories, and Moduli Spaces” MFO, Oberwolfach; “VBAC” Universität Duisburg-Essen (4 conférences); Abel Symposium 2017 “Geometry of

moduli” Svolvaer, Norway; “Positivity in Algebraic and Complex Geometry” ICMS, Edinburgh; “Georgia Algebraic Geometry Symposium” University of Georgia; “Stability and moduli spaces” AIM, San Jose.

- 2016 *Séminaires de recherche* : Harvard/MIT, University of Oregon (colloquium). *Conférences* : “Algebraic geometry: old and new” Clay Mathematics Institute, Oxford; “Geometry at the ANU” Australian National University (4 conférences); “Interacting algebraic geometry” Université de Bourgogne; “New methods in birational geometry” Université de Toulouse (4 conférences); “Classical Algebraic Geometry” MFO, Oberwolfach; CIMPA School “Moduli of curves” CIMAT, Guanajuato (5 conférences).
- 2015 *Séminaires de recherche* : Yale University, University of North Carolina (colloquium), University of South Carolina, SUNY–Stony Brook, University of Massachusetts–Amherst, Columbia University, University of Maryland. *Conférences* : “New Developments in Moduli and Geometric Invariant Theory” University of North Carolina; “Recent advances in arithmetic and algebraic geometry” Università di Siena (4 conférences); “AMS Summer Institute in Algebraic Geometry” University of Utah; “New Techniques in Birational Geometry” Stony Brook University; “Simons Symposium on Geometry Over Nonclosed Fields” Rio Grande, Puerto Rico; “AGNES” Boston College, “Chow groups, motives, and derived categories” IAS, Princeton; “Geometry from stability conditions” University of Warwick.

Total des invitations à des conférences (en tant que conférencier, après 2006) : **74**

Total des invitations à des séminaires de recherche (en tant que conférencier, après 2006) : **80**

Invitations longue durée

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| 09/18–02/19 | IHÉS, Bures-sur-Yvette |
| 02/17–07/17 | Chaire Poincaré, Institut Henri Poincaré |
| 08/16 | «Visiting Professor», Australian National University |
| 07/16 | Professeur des universités invité, Université de Toulouse |
| 05/14–06/14 | Universität Bonn |
| 06/12–07/12 | Universität Bonn |
| 05/09–06/09 | Universität Bonn |
| 05/08 | Universidad de Salamanca |
| 02/07–03/07 | IHÉS, Bures-sur-Yvette |

Publications

Publications dans des revues avec comité de lecture :

1. O. DEBARRE, E. MACRÌ : *On the period map for hyperkähler fourfolds*, Int. Math. Res. Not. IMRN (2018), Article ID rnx333, 37 pp.
2. M. LAHOZ, M. LEHN, E. MACRÌ, P. STELLARI : *Generalized twisted cubics on cubic fourfolds as a moduli space of stable objects*, J. Math. Pures Appl. **114** (2018), 85–117.
3. M. BERNARDARA, E. MACRÌ, B. SCHMIDT, X. ZHAO : *Bridgeland stability conditions on Fano threefolds*, Épijournal Géom. Algébrique **1** (2017), Art. 2, 24 pp.
4. A. BAYER, E. MACRÌ, P. STELLARI : *The space of stability conditions on abelian threefolds, and on some Calabi-Yau threefolds*, Invent. Math. **206** (2016), 869–933.
5. M. LAHOZ, E. MACRÌ, P. STELLARI : *ACM bundles on cubic threefolds*, Algebr. Geom. **2** (2015), 231–269.
6. A. BAYER, E. MACRÌ : *MMP for moduli of sheaves on K3s via wall-crossing: nef and movable cones, Lagrangian fibrations*, Invent. Math. **198** (2014), 505–590.
7. A. BAYER, E. MACRÌ : *Projectivity and birational geometry of Bridgeland moduli spaces*, J. Amer. Math. Soc. **27** (2014), 707–752.
8. E. MACRÌ : *A generalized Bogomolov-Gieseker inequality for the three-dimensional projective space*, Algebra Number Theory **8** (2014), 173–190.
9. A. BAYER, A. BERTRAM, E. MACRÌ, Y. TODA : *Bridgeland stability conditions on threefolds II: An application to Fujita’s conjecture*, J. Algebraic Geom. **23** (2014), 693–710.
10. A. BAYER, E. MACRÌ, Y. TODA : *Bridgeland stability conditions on threefolds I: Bogomolov-Gieseker type inequalities*, J. Algebraic Geom. **23** (2014), 117–163.
11. E. MACRÌ, P. STELLARI : *Fano varieties of cubic fourfolds containing a plane*, Math. Ann. **354** (2012), 1147–1176.
12. M. BERNARDARA, E. MACRÌ, S. MEHROTRA, P. STELLARI : *A categorical invariant for cubic threefolds*, Adv. Math. **229** (2012), 770–803.
13. A. BAYER, E. MACRÌ : *The space of stability conditions on the local projective plane*, Duke Math. J. **160** (2011), 263–322.
14. D. HUYBRECHTS, E. MACRÌ, P. STELLARI : *Formal deformations and their categorical general fibre*, Comment. Math. Helv. **86** (2011), 41–71.
15. E. MACRÌ, P. STELLARI : *Infinitesimal derived Torelli theorem for K3 surfaces* (with an appendix by S. Mehrotra), Int. Math. Res. Not. IMRN (2009), Article ID rnp049, 31 pp.
16. D. HUYBRECHTS, E. MACRÌ, P. STELLARI : *Derived equivalences of K3 surfaces and orientation*, Duke Math. J. **149** (2009), 461–507.
17. E. MACRÌ, S. MEHROTRA, P. STELLARI : *Inducing stability conditions*, J. Algebraic Geom. **18** (2009), 605–649.
18. E. MACRÌ, M. NIEPER-WISSKIRCHEN, P. STELLARI : *The module structure of Hochschild homology in some examples*, C. R. Math. Acad. Sci. Paris **346** (2008), 863–866.

19. E. MACRÌ, P. STELLARI : *Automorphisms and autoequivalences of generic analytic K3 surfaces*, J. Geom. Phys. **58** (2008), 133–164.
20. D. HUYBRECHTS, E. MACRÌ, P. STELLARI : *Stability conditions for generic K3 categories*, Compos. Math. **144** (2008), 134–162.
21. E. MACRÌ : *Stability conditions on curves*, Math. Res. Lett. **14** (2007), 657–672.
22. C. BARTOCCI, E. MACRÌ : *Classification of Poisson surfaces*, Commun. Contemp. Math. **7** (2005), 89–95.

Preprints :

23. A. BAYER, M. LAHOZ, E. MACRÌ, H. NUER, A. PERRY, P. STELLARI : *Stability conditions in families*, Preprint 2019, <https://arxiv.org/abs/1902.08184>.
24. E. MACRÌ, B. SCHMIDT : *Derived categories and the genus of space curves*, Preprint 2018, <https://arxiv.org/abs/1801.02709>.
25. A. BAYER, M. LAHOZ, E. MACRÌ, P. STELLARI : *Stability conditions on Kuznetsov components*, Preprint 2017, <https://arxiv.org/abs/1703.10839>.
26. E. MACRÌ : *Some examples of spaces of stability conditions on derived categories*, Preprint 2004, <http://arxiv.org/abs/math/0411613>.

Publications dans livres avec comité de lecture :

27. E. MACRÌ, P. STELLARI : *Lectures on non-commutative K3 surfaces, Bridgeland stability, and moduli spaces*, à paraître dans le livre “Birational geometry of hypersurfaces”, Springer 2019.
28. E. MACRÌ, B. SCHMIDT : *Lectures on Bridgeland Stability*, dans le livre “Moduli of curves”, 139–211, Lect. Notes Unione Mat. Ital. **21**, Springer 2017.
29. M. LAHOZ, E. MACRÌ, P. STELLARI : *ACM bundles on cubic fourfolds containing a plane*, dans le livre “Brauer groups and obstruction problems”, 155–175, Progr. Math. **320**, Birkhäuser/Springer 2017.
30. E. MACRÌ : *Stability conditions for derived categories*, dans le livre “Fourier-Mukai and Nahm transforms in geometry and mathematical physics”, 359–395, Progr. Math. **276**, Birkhäuser 2009.

Prix et Financement de Projets de Recherche

- *Recherche* : Poincaré Chair, Institut Henri Poincaré (2016-17); National Science Foundation, Personal Grant (PI; 2010-14, \$120,674; 2014-17, \$163,000; 2017-20, \$155,000); National Science Foundation FRG Grant (PI; 2017-20, \$154,000).
- *Enseignement* : College of Engineering Outstanding Teacher of First Year Engineering Students Award, Northeastern University (2016-17); Outstanding Instructor Award, University of Utah (2009-10); National Science Foundation RTG Grant (PI; 2017-22; \$2,242,000).

Organisation d’Événements Scientifiques (après 2015)

- “Moduli Spaces of sheaves and Bridgeland Stability”, University of Illinois at Chicago, Décembre 2018.

- “Semiorthogonal decompositions, stability conditions and sheaves of categories”, Université de Toulouse, Mai 2018.
- “AMS Sectional Meeting: Geometry of Moduli Spaces”, Northeastern University, Avril 2018.
- “Moduli of Sheaves and Strange Duality”, Penn State University, Décembre 2017.
- “AGNES”, Northeastern University, Octobre 2017.
- “Positivity in Arithmetic and Geometry”, Université Paris-Sud, Mai 2017.
- “Derived categories and Chow groups of hyperkähler and Calabi-Yau varieties”, Simons Center, Stony Brook University, Septembre 2016.
- “AGNeUBC”, Northeastern University and Boston College, Avril 2015, Septembre 2015, Avril 2016, Octobre 2016, Mars 2017, Novembre 2017.

Total des événements scientifiques organisés (après 2012) : **18**

Étudiants en Thèse

- Benjamin Schmidt, *postdoc* à *University of Texas at Austin*, thèse soutenue en Avril 2016, à Ohio State University.
- Bingyu Xia, *postdoc* à *Morningside Center of Mathematics, Chinese Academy of Sciences*, thèse soutenue en Avril 2017, à Ohio State University.
- Benjamin Sung, à partir de 2016, à Northeastern University.
- Yucheng Liu, à partir de 2016, à Northeastern University.
- Céline Bonandrini, à partir de 2017, à Northeastern University.
- Mikhail Mironov, à partir de 2018, à Northeastern University.

Postdoc

- Martí Lahoz (2010-2011), *Maître de conférences* à *l’université Paris 7*.
- Davide Fusi (2013-2014), «*Assistant Professor*» à *University of South Carolina, Beaufort*.
- Xiaolei Zhao (2015-2018), «*Assistant Professor*» à *University of California Santa Barbara*.
- Howard Nuer (2016-2017), *postdoc NSF* à *University of Illinois at Chicago*.
- Laure Flapan, à partir de 2017, à Northeastern University.

Enseignement (après 2015, Northeastern University)

- Schemes (Math 7361), printemps 2018.
- Introduction to Mathematical Reasoning (Math 1365), automne 2017.
- Schemes (Math 7361), automne 2016.
- Calculus I for Science and Engineering (Math 1341), automne 2015.
- Introduction to Mathematical Reasoning (Math 1365), automne 2015.

Total des cours enseignés (après 2004): **23**

Responsabilités (après 2011)

- Membre du «Faculty Hiring Committee», Northeastern University, 2017-2018.
- Membre du «Postdoc Hiring Committee», Northeastern University, 2015-2017.
- Membre du «Executive Committee», Ohio State University, 2013-2014.
- Membre du «Undergraduate Committee», Ohio State University, 2012-2014.
- Responsable du cours “Introduction to Mathematical Reasoning”, automne 2017.
- Responsable du cours “Abstract Algebra”, 2013-2014.
- Membre du «Ph.D. Defense Committee» pour six candidats.
- Membre du «Habilitation Committee» Humboldt Universität, 2019.
- Referee pour plusieurs journaux.
- Rédacteur des actes de deux conférences (publiée par AMS et Birkhäuser)
- «Panelist» pour National Science Foundation (2013, 2014, 2017, 2019) et rapporteur externe pour National Security Agency (2011, 2012, 2013, 2015, 2016), Natural Sciences and Engineering Research Council of Canada (2015), INdAM Fellowships in Mathematics and/or Applications (2015) et Agence Nationale de la Recherche (2015, 2016).