

Curriculum Vitae

Miaofen CHEN

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Personal information

- Family Name: Chen
 - Given Name: Miaofen
 - Nationality: Chinese
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Research interests

Research domain: Arithmetic algebraic geometry

Research interests: p -divisible groups and their moduli spaces (i.e. Rapoport-Zink spaces), affine Deligne-Lusztig varieties, p -adic period domains, Galois representations and Kisin varieties.

Employment

- 2025.07-present: Professor, Fudan University, China
- 2024.02-2025.07: Associate professor, Fudan University, China
- 2017.10-2024.01 Professor, East China Normal University, China
- 2014.08-2017.10: Associate professor, East China Normal University, China
- 2012.11-2014.7: Lecturer, East China Normal University, China
- 2012.05-2012.08: Postdoctoral fellow, Technical University of Munich, Germany
Advisor: Eva Viehmann
- 2011.09-2012.04: Postdoctoral fellow, University of Bonn, Germany
Advisor: Eva Viehmann

Education

- 2006-2011: Ph.D Student, University Paris XI, Orsay, France
Ph.D degree
Advisor: Laurent Fargues
Title of thesis: Le morphisme déterminant pour les espaces de modules de groupes p -divisibles
(the determinant morphism for the moduli spaces of p -divisible groups)
Thesis defended on the 11th May 2011
- 2005-2006: Master student, 2nd year, University Paris XI, Orsay, France
Master degree
Master “Analyse, Arithmétique et Géométrie”
Advisor: Laurent Fargues
- 2004-2005: Master student, 1st year, Tsinghua University, Beijing, China
Advisor: Linsheng Yin
- 2000-2004: Undergraduate student, Tsinghua University, Beijing, China
Bachelor degree
Advisor: Linsheng Yin

Publications and Preprints

- (with Jilong Tong) Weakly admissible locus and Newton stratification in p -adic Hodge theory, *Amer. J. Math.* 148 (2026), no. 1, 1–67.
- (with Jilong Tong) On the weak Harder-Narasimhan stratification on B_{dR}^+ -affine Grassmannian, *Compositio Math.* 161 (2025), 2654–2711.
- Fargues-Rapoport conjecture for p -adic period domains in the non-basic case, *J. Eur. Math. Soc.* 25 (2023), no. 7, 2879–2918.
- (with Sian Nie) Connectedness of Kisin varieties associated to absolutely irreducible Galois representations, *J. Reine Angew. Math.*, 785(2022) 31–54.
- (with Laurent Fargues and Xu Shen) On the structure of some p -adic period domains, *Camb. J. Math.* 9 (2021), no. 1, 213–267.
- (with Eva Viehmann) Affine Deligne-Lusztig varieties and the action of J , *J. Algebraic Geom.* 27 (2018), no. 2, 273–304.
- (with Mark Kisin and Eva Viehmann) Connected components of affine Deligne-Lusztig varieties in mixed characteristic, *Compos. Math.* 151 (2015), no. 9, 1697–1762.
- Composantes connexes géométriques d’espaces de modules de groupes p -divisibles, *Ann. Sci. Éc. Norm. Supér.* 47 (2014), no. 4, 723–764.
- Le morphisme déterminant pour les espaces de modules de groupes p -divisibles, *Int. Math. Res. Notices.* (2013), no. 7, 1482–1577.
- Périodes entières de groupes p -divisibles sur une base générale, *Bull. Soc. Math. France.*, 143 (2015), no. 1, 1–33.

Teaching

- At Fudan University:
 - 2025-2026 Autumn: Advanced algebraic number theory, Abstract algebra
 - 2024-2025 Spring: Algebraic number theory
 - 2024-2025 Autumn: Abstract algebra
 - 2022-2023 Spring: Classical mathematical thought
 - 2019-2020 Spring: Algebraic number theory
- At East China Normal University:
 - 2022-2023 Spring: Seminar on algebra II
 - 2021-2022 Autumn: Modern algebra
 - 2020-2021 Spring: Algebraic geometry I
 - 2020-2021 Autumn: Modern number theory, Algebraic geometry II
 - 2019-2020 Spring: Seminar on algebraic groups
 - 2019-2020 Autumn: Advanced algebra (honors)
 - 2018-2019 Spring: Linear algebraic groups, Advanced algebra II
 - 2018-2019 Autumn: Linear algebra A
 - 2017-2018 Spring: Topology
 - 2017-2018 Autumn: Linear algebra A
 - 2016-2017 Autumn: Riemann surfaces
 - 2015-2016 Spring: Modern algebra I, Modern algebra, Seminar on linear algebraic groups
 - 2015-2016 Autumn: Linear algebraic groups
 - 2014-2015 Spring: Introduction to number theory
 - 2014-2015 Autumn: Modern algebra I
 - 2013-2014 Spring: Modern algebra II
 - 2013-2014 Autumn: Modern algebra I
- At University Paris XI:
 - 2009-2011 Autumn, IFIPS Complements (exercise class)
(Contents of the course: real analysis, complex analysis, distribution, probability et statistics)
 - 2009-2010 Spring, Linear algebra (exercise class)
- At Tsinghua University:
 - 2004-2005 Autumn, Mathematical analysis (exercise class)

Invited talks

- Conference of Number Theory and Arithmetic Geometry, Nanjing, 2026

- 2025 Taipei Conference on Arithmetic Geometry, Taipei, 2025
- The 17th National Conference on Algebra, Harbin, 2025
- Workshop on Number theory and its applications, Xiamen, 2025
- Frontier Forum on Number theory, Beijing, 2025
- Conference on p -adic Geometry and Related Topics, Beijing, 2024
- Tongji Workshop on Arithmetic Geometry, Shanghai, 2024
- 119th Anniversary of Fudan University and the 58th Scientific Symposium, Shanghai, 2024
- Frontier Forum for Women in Fundamental Mathematics, Heerbin, 2024
- The Annual International Congress of Chinese Mathematicians (ICCM 2023), Shanghai, 2024
- IMS Anniversary Symposium on Algebra, Shanghai, 2023
- Conference on Arithmetic Algebraic Geometry, on the occasion of Michael Rapoport's 75th birthday, Muenster, Germany, 2023
- Conference on Arithmetic Algebraic Geometry, Hongkong, 2023
- The 3rd Cross Strait Workshop on Arithmetic Geometry, Hefei, 2023
- 2022 Academic Annual Meeting of Chinese Mathematical Society, Wuhan, 2023
- The 10th East Asian Number Theory Conference, online, 2023
- Workshop on Algebra and Number theory in honor of Prof. Shouwu Zhang, online, 2022
- Conference on Algebraic Representation Theory 2022, Tsukuba/online, 2022
- Community-building in the Langlands Program, Bonn/online, 2022
- Conference on Arithmetic Geometry in honor of Luc Illusie, online, 2021
- The 8th National Conference on Number Theory, Jintan, 2021
- Westlake Number Theory Symposium, Hangzhou, 2020
- ICCM 2020 Annual Meeting, Hefei, 2020
- 2019 Youth Forum on Algebraic Geometry, Suzhou, 2019
- International Conference on Arithmetic Geometry, in honor of Prof. Michael Rapoport's 71st birthday, Beijing, March, 2019
- Arithmetic of Shimura Varieties, Oberwolfach, January, 2019
- The fifth Sichuan-Chongqing Workshop on Number Theory, Chengdu, December, 2018
- Iwasawa Theory and p -adic Automorphic Forms, Shanghai, December, 2018
- 2018 Beihang Youth Forum on Mathematics, Beijing, December, 2018
- The joint International Meeting of Chinese Mathematical Society and American Mathematical Society, Shanghai, June, 2018
- Workshop on Shimura varieties and Related Topics, 2016, Taipei, May, 2016
- New Progress in Number Theory in China and Korea 2016, POSTECH, Pohang, January, 2016

- Conference on Algebraic Number Theory, TSIMF, Sanya, January, 2016
- 80th Anniversary Conference of the Chinese Mathematical Society, Capital Normal University, Beijing, November, 2015
- The Algebraic and Arithmetic Geometry Conference, USTC, Hefei, September, 2015
- Reduction of Shimura Varieties, MFO, Oberwolfach, August, 2015
- Workshop on Automorphic Forms, Geometry and Representation Theory, Zhejiang University, Hangzhou, July, 2015
- Connections for Women: Workshop on Geometric Representation Theory, Berkeley, August, 2014
- The 3rd Cross Strait Workshop in Algebra, East China Normal University, Shanghai, July, 2014
- K3 Surface Conference, Shanghai Center for Mathematical Sciences, Shanghai, April, 2014
- The Fourth East Asia Number Theory Conference, Kyushu University, Fukuoka, January, 2014
- The Algebraic and Arithmetic Geometry Conference to "AGAG Summer School 2013", USTC, Hefei, August, 2013
- Sino-French Conference on Arithmetic Geometry, Chern institute of Mathematics, Tianjin, June, 2013
- The third Young Mathematicians Forum of Algebra, School of Mathematical Sciences, USTC, Hefei, June, 2013
- Workshop on Arithmetic Geometry and Automorphic Forms, Beijing, August 2012
- Workshop on Reductions of Shimura Varieties, Oberwolfach, July 2012
- Workshop on the Arithmetic Geometry of Shimura varieties and Rapoport-Zink spaces, Kyoto University, Kyoto, July 2011

Research visits

- Morningside Center of Mathematics, Chinese academy of sciences, July 09-24, 2023
- Morningside Center of Mathematics, Chinese academy of sciences, Dec. 07 2019-Jan. 13 2020
- Institute of Mathematics Academia Sinica, May 23-June 04, 2016
- National Center for Theoretical Sciences of Taiwan, Dec. 15 2015-Jan. 02 2016
- Technischen Universität München, July 13-26, 2014
- Hong Kong University of Science and Technology Jan. 13-18, 2014
- Shanghai Center for Mathematical Sciences, Nov. 1-30, 2013
- Mathematisches Institut der Universität Bonn, May 30-June 10, 2011

Academic Activities and Service

- Co-organizer of Mini-workshop on Number Theory, SCMS, Dec. 24, 2025
- Co-organizer of Fudan Number Theory Conference 2025, Fudan University, Nov.28-Dec. 1st, 2025
- Co-organizer of Conference: New tools in Langlands program, Banff Hangzhou, July 28-August 1st, 2025
- Co-organizer of Workshop on affine Deligne-Lusztig varieties and related topics, SCMS, March 06-07, 2025
- Co-organizer of Mini-workshop on Representation Theory, SCMS, August 09, 2024
- Co-organizer of Fudan Workshop on Arithmetic Geometry 2024, SCMS, June 13-16, 2024
- Co-organizer of Youth Forum on Number Theory 2023, Peking University, Dec. 2-3, 2023
- Co-organizer of Youth Forum on Number Theory, ECNU, Nov. 27, 2023
- Co-organizer of Workshop on Geometry of Shimura Varieties and Arithmetic Applications, BICMR, August 15-19, 2022
- Co-organizer of Workshop on Local Models for Galois Deformation Rings, MCM, April 3 and April 23, 2021
- Co-organizer of 2019 Winter school on Shimura varieties and related topics, ECNU, Nov. 29-Dec. 3, 2019
- Co-organizer of the Young Mathematicians Forum of Arithmetic Geometry, ECNU, July 7-9, 2013

Editorships

- Editorial Board, Journal of Algebra, March 2024-present.