

Tin̄hinane Amina AZZOUZ

Curriculum Vitae

Yau Mathematical Sciences Center, Tsinghua University,
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🌐 <https://sites.google.com/view/azzouztmath/>

Born december 02th, 1990

Algerian

EDUCATION

- 2018-2014 **Ph.D. in Mathematics**, *Institut Montpellierain Alexander Grothendieck, Université de Montpellier*, Montpellier, France
Title: Spectrum of p-adic differential equations.
Supervisors: Andrea PULITA and Jérôme POINEAU.
Referees: F. BALDASSARRI et A. DUCROS.
- 2014-2012 **M.Sc. in Mathematics and applications**, *Fondamental Mathematics*, Université Pierre et Marie Curie (Campus Pierre et Marie Curie of Sorbonne Université), Paris, France
(With honor)
- 2011-2008 **B.Sc. in Mathematics and informatique**, *Algebra and cryptography*, Université des Sciences et de la Technologie Houari Boumediene (U.S.T.H.B), Algiers, Algeria
(With honor)

EMPLOYMENT

- 01/2024- ... **Assistant Professor**, *Beijing Institute of Mathematical Sciences and applications*, Beijing, China
- 01/2021- 12/2023 **Postdoctoral researcher**, *Yau Mathematical Sciences Center, Tsinghua University, Beijing Institute of Mathematical Sciences and applications*, Beijing, China
- 11/2018-12/2020 **Assistant Professor**, *Université Alger 1*, Algiers, Algeria
- 09/2018-11/2018 **Postdoctoral researcher**, *Max Planck institute for Mathematics*, Bonn, Germany
- 10/2017-08/2018 **Attaché Temporaire d'Enseignement et de Recherche (temporary teaching and research assistant)**, *Université Grenoble Alpes*, Grenoble, France
- 10/2015-08/2016 **Teaching mission**, *Université Grenoble Alpes*, Grenoble, France
- 10/2014-08/2015 **Teaching mission**, *Université Montpellier*, Montpellier, France

PRINTS

- [1] Tinhinane A. AZZOUZ, *Spectrum of a linear differential equation with constant coefficients*, *Mathematische Zeitschrift*, 296, 1613–1644 (2020), DOI: 10.1007/s00209-020-02482-z, arXiv:1802.07306.
- [2] Tinhinane A. AZZOUZ, *Spectrum of a linear differential equation over a field of formal power series*, *Journal Of Number Theory*, 231, 139-157 (2021), DOI: 10.1016/j.jnt.2020.11.021 arXiv:1808.02382.
- [3] Tinhinane A. AZZOUZ, *Spectrum of p -adic linear differential equations I: The shape of the spectrum*, *Selecta Mathematica* 30, 13 (2024), DOI: 10.1007/s00029-023-00904-4, arXiv:2111.03548 .

PREPRINTS

- Tinhinane A. AZZOUZ, *Spectrum of p -adic linear differential equations II: The variation of the spectrum*, arXiv:2303.06014. (Submitted)

In progress

- Wild finite étale coverings of p -adic annuli. (with Andrea Pulita)
- The spectrum of p -adic linear differential equations with respect to derivation $(T - c)^n \frac{d}{dT}$ and the strong refined decomposition.

TALKS

- 08/2022 **Sanya Mathematics Summer school**, *Tsinghua Sanya International Mathematics Forum*, Sanya, China
Course title: Introduction to p -adic differential equations.
- 06/2022 **BIMSA-YMSC Tsinghua Number Theory Seminar**, Beijing, China
Title: Spectrum of p -adic differential equations.
- 07/2017 **Students’s Conference on Tropical and Non-Archimedean Geometry**, *University of Regensburg*, Regensburg, Germany
Title: Spectral theory and ultrametric differential equations.
- 06/2016 **École jeunes chercheurs en théorie des nombres**, *Université Blaise Pascal*, Clermont-Ferrand
Title: Spectre d’un système différentiel aux coefficients constants.
- 2014-2018 **PhD students seminar**, *5 talks in this period of time.*

GRANTS AND AWARD

- 01/2023-12/2023 **Research Fund for International Young Scientists**, **National Natural Science Foundation of China**, *Tsinghua University, Yau Mathematical Sciences Center*, Beijing, China
- 10/2014-09/2017 **Ph.D student with funding and teaching**, *Université de Montpellier*, Montpellier, France
- 09/2012-08/2014 **Laureate of the program ”Paris Graduate School of Mathematics” international**, *Fondation Sciences Mathématiques de Paris*, Paris, France

Administrative responsibilities

11/2019-06/2020 **Deputy director in charge of teaching**, *Département mathématiques et informatique*, Université Alger 1, Algiers
Algeria

PARTICIPATIONS

Conferences

- 07/2018 **Berkovich Spaces 30 years**, *Institut Henri Poincaré*, Paris, France
- 07/2017 **Students' Conference on Tropical and Non-Archimedean Geometry**, *University of Regensburg*, Regensburg, Germany
- 03/2017 **p-adic Analytic Geometry and Differential Equations**, *CIRM*, Marseille, France
- 08/2015 **Students' Conference on Tropical and Non-Archimedean Geometry**, *University of Regensburg*, Regensburg, Germany
- 06/2015 **Géométrie et arithmétique sur les corps locaux et globaux**, *Université de Caen*, Caen, France
- 06/2015 **Conférence en hommage à Alexandre Grothendieck**, *Université de Montpellier*, Montpellier, France

Summer school

- 07/2019 **Perfectoids**, *Centre Henri Lebesgue*, Rennes, France
- 07/2017 **Berkovich Spaces, Tropical Geometry and Model Theory**, *Universided Los Andes*, Bogotá, Colombia
- 06/2016 **École jeunes chercheurs en théorie des nombres**, *Université Blaise Pascal*, Clermont-Ferrand, France
- 06/2014 **Special week: Berkovich spaces and applications**, *Université de Strasbourg*, Strasbourg, France

LANGUAGES

Arabic	Native language
French	Fluent
English	Fluent
Mandarin	Beginner