Hua Wang

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Education

2016—2020 **PhD**, *University of Paris*, Paris, France,
Thesis advisor: Pierre Fima.
Defended on: November 25, 2020

2012–2016 **ENS diploma**, *École Normale Supérieure*, Paris, France.
Master's degree from *Pierre and Marie Curie University* (now *Sorbonne University*)
(mention: très bien)

2009–2012 **Bachelor's degree (with honour)**, *University of Science and Technology of China*, Hefei, China.

Employment

2020- **Postdoc researcher**, *Université de Franche-Comté*, Besançon, France.

Invited visits

January 5-11, 2020 Guest at *Center for Symmetry and Deformation*
University of Copenhagen

Publications and preprints

Ph.D thesis *Rapid Decay of Bicrossed Products and Representation Theory of Some Semidirect Products*
(full text available via `https://www.normalesup.org/~huawang/documents/thesis-Hua_WANG.pdf`)

1. *Examples of bicrossed products with rapid decay*
(In preparation, manuscript corresponding to Chapter III of my thesis)
2. *On representations of semidirect products of a compact quantum group with a finite group*, arXiv:1909.02359
(submitted for publication)
3. with Pierre Fima, *Rapid decay and polynomial growth for bicrossed products*, arXiv:1812.04078
(to appear in *Journal of Noncommutative Geometry*)

Research talks

2021 Functional analysis seminar, University of Franche-Comté,
Examples of bicrossed products with rapid decay (2 sessions)

2020 Operator Algebras Seminar, Center for Symmetry and Deformation, University of Copenhagen
Representations of semidirect products of a compact quantum group with a finite group

2019 Arbre de Noël 2019 du GDR GNC, Paris Diderot University (now University of Paris)
Classification of irreducible representations of semidirect products of a compact quantum group with a finite group

2019 Journées de jeunes analystes non commutatifs, University of Franche-Comté
Classification of irreducible representations of semidirect products of a compact quantum group with a finite group

2019 Workshop *Quantum groups and their analysis*, University of Oslo
Bicrossed products whose dual has property (RD) but not polynomial growth

2019 Séminaire d'Analyse Harmonique Non Commutative, University of Caen Normandy
Polynomial growth and rapid decay on the dual of a bicross product

2018 Arbre du Noël du GDR GNC, University of Lorraine
The rapid decay property for the classical bicrossed product

Expository talks

2021 *Quantum family of mappings*
ISem24 seminar

2021 *Local reflexivity of C^*-algebras* (3 sessions)
Working group at University of Franche-Comté

2019 *Duality of Multiplier Hopf Algebras*
Seminaire de thésard at IMJ-PRG

2018 *Introduction to Elementary Topoi* (5 sessions)
Working group on model theory, Paris Diderot University

2018 *Proof of Gödel's Completeness Theorem* (2 sessions)
Working group on model theory, Paris Diderot University

2017 *Théorie élementaire des treillis*
Séminaire Bourbakette, Paris Diderot University

2016 *Espaces Uniformes*
Séminaire Bourbakette, Paris Diderot University

2016 *Sur la classification des groupes quantiques* easy
Master's thesis, advisor: Pierre Fima

2016 *Introduction à la théorie des groupes quantiques compacts*
ENS diploma

2015 *La dualité de Pontryagin*
Leçons mathématiques directed by Bernard Rémy, ENS

2014 *Opérateurs de Hecke* (2 sessions)
Groupe de travail on modular forms
directed by Jean-François Dat, ENS

2013 with another student at ENS, *Sur le troisième problème de Hilbert*
First year presentation at ENS, advisor: Antoine Touzé

Teaching experiences

Teaching assistant at University of Paris for the following courses

2019-2020 Cycle prépa aux écoles d'ingénieurs, classe préparatoire L1
2019-2020 Modélisation mathématique en biologie, biologie L1
2019-2020 Mathématiques élémentaires, chimie L1
2018-2019 Cycle prépa aux écoles d'ingénieurs, classe préparatoire L2
2018-2019 Algèbre et analyse élémentaires 1, chimie L1
2017-2018 Analyse de Hilbert et de Fourier, mathématiques L3
2016-2017 Algèbre et analyse pour la physique, physique L2
2016-2017 Algèbre et analyse élémentaire II, MIASH L1

Mentors for first-year projects in mathematics at University of Paris

2019-2020 Projet de mathématique, Miash & Mathinfo L1

Tutoring for mathematics at all french license level at University of Paris

2019-2020 Tutorat de mathématique, L1-L3

Language skills

Chinese Native
English Fluent
French Fluent
German Basic

Computer skills

Programming languages Proficient at *C, C++, bash, python, elisp*; basic knowledge on *Haskell*
Unix Proficient at optimization and maintenance of various Unix-like operating systems: GNU/Linux, FreeBSD etc.