

BAOJUN WU 1996-06-21 | Curriculum Vitae

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RESEARCH INTERESTS

My interests lie at the interface between probability theory and mathematical physics. In particular, Liouville conformal field theory, Schramm-Loewner evolutions, Conformal loop ensembles, and hyperbolic geometry.

EDUCATION

SHANDONG UNIVERSITY Mathematics and applied mathematics honour degrees	9/2014 - 6/2018 Undergraduate
L'ÉCOLE NORMALE SUPÉRIEURE (ULM) Mathematics and applied mathematics mention: Très Bien	9/2017 - 6/2020 Normalien
UNIVERSITÉ PARIS-SACLAY Random mathematics and probability mention: Très Bien	9/2019 - 6/2020 Master
UNIVERSITÉ AIX MARSEILLE Advisor: Prof. Rémi Rhode	9/2020 - 9/2023 Ph.D.
BEIJING INTERNATIONAL CENTER FOR MATHEMATICAL RESEARCH	9/2023 - Postdoc

EXPERIENCE

INSTITUTE FOR ADVANCED STUDY visiting student	9/2022 - 12/2022
INSTITUT DES HAUTES ÉTUDES SCIENTIFIQUES visiting student	1/2023 - 2/2023

PREPRINTS AND PUBLICATIONS

CONFORMAL BOOTSTRAP ON THE ANNULUS IN LIOUVILLE CFT.

<https://arxiv.org/abs/2203.11830>

HIGHER EQUATIONS OF MOTION AT LEVEL 2 IN LIOUVILLE CFT

(with G. Baverez) <https://arxiv.org/abs/2312.13900>

IRREDUCIBILITY OF VIRASORO REPRESENTATIONS IN LIOUVILLE CFT

(with G. Baverez) <https://arxiv.org/abs/2312.07344>

CONFORMAL BOOTSTRAP FOR SURFACES WITH BOUNDARY IN LIOUVILLE CFT. PART 1: SEGAL AXIOMS

(with C. Guillarmou and R. Rhodes) <https://arxiv.org/abs/2408.13133>

SLE LOOP MEASURE AND LIOUVILLE QUANTUM GRAVITY

(with M. Ang, G. Cai and X. Sun) <https://arxiv.org/abs/2409.16547>

INTEGRABILITY OF CONFORMAL LOOP ENSEMBLE: IMAGINARY DOZZ FORMULA AND BEYOND

(with M. Ang, G. Cai and X. Sun) <https://arxiv.org/abs/2107.01788>

CONFERENCE TALKS

RANDOM GEOMETRY AND STATISTICAL PHYSICS AT UPENN

2022.10

Talk Title: Conformal loop ensemble and matrix model

1ST NYUSH PEKING WESTLAKE JOINT CONFERENCE ON PROBABILITY

2024.3

Talk Title: Irreducibility of Liouville theory

PROBABILITY IN CONFORMAL FIELD THEORY BERNOULLI CENTER, EPFL

2024.4

Talk Title: Proof of Delfino-Viti conjecture