

Junqing(Jenn) Qian | CV

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Employment

Visiting Assistant Professor of Pure Mathematics

Mentors: Alex Buium, Hongnian Huang

2020 -

*Department of Mathematics and Statistics
University of New Mexico, Albuquerque, NM, U.S.*

Education

Ph.D. in Mathematics

Advisor: Damin Wu

2014 - 2020

*Department of Mathematics
University of Connecticut, Storrs, CT, U.S.*

B.S. in Mathematics

2010 - 2014

*School of Gifted Young
University of Science and Technology of China, Hefei, Anhui, China*

Research Interests

Differential geometry, analytic functions, automorphic functions, complex manifolds, invariant metrics, Riemann surfaces and number theory.

Papers

2. The Kobayashi-Royden metric on punctured spheres (*with G. Cho*). arXiv:1907.07295

DOI:<https://doi.org/10.1515/forum-2019-0297>

Forum Mathematicum.

1. Hyperbolic metric, punctured Riemann sphere and modular functions. arXiv:1901.06761

to appear in Trans. Amer. Math. Soc.

Awards and Fellowships

DeLuca Graduate Teaching Award

University of Connecticut, Department of Mathematics

spr. '20

Doctoral Dissertation Fellowship

University of Connecticut

spr. '20

Doctoral Travel Fellowship

University of Connecticut

fall '19

Commendation Letter of Excellence in Teaching

Office of the Provost, University of Connecticut

each semester, '16 - '19

William H. Ezell Scholarship

University of Connecticut

sum. '18

Graduate Summer Fellowship

University of Connecticut

sum. '15

Scholarship for Freshman

University of Science and Technology of China

fall '10

Conferences and Talks

- *Current Developments in Mathematics 2019* Nov. '19
Harvard University *attended with financial support*
- *Conference on Differential Geometry* Nov. '19
a conference in celebration of the 40 years JDG Editorship and the 70th Birthday of S. T. Yau
Lehigh University *attended*
- *S.I.G.M.A seminar (expository)* Oct. '19
talk title: conformal mapping, Schwarzian derivative and accessory parameters
University of Connecticut
- *PDE and Differential Geometry Seminar* Oct. '19
talk title: hyperbolic metric on punctured Riemann surfaces
University of Connecticut
- *Northeast Analysis Meeting* Oct. '19
contributed talk: hyperbolic metric, punctured sphere and modular functions
Syracuse University
- *Northeast Analysis Network* *attended, Sep. '19*
University of Connecticut
- *Current Developments in Mathematics 2018* Nov. '18
Harvard University *attended with financial support*
- *Summer School in Minimal Surfaces, Flows, and Relativity* July '18
University of Connecticut *attended*
- *S.I.G.M.A seminar (expository)* spr. '18
talk title: poincaré hyperbolic models, punctured Riemann sphere and modular functions
University of Connecticut

Teaching Experience

- Current::** *storrs, CT*
Calculus II *online TA, spr. '20*
- INSTRUCTOR:** *storrs, CT*
Elementary Differential Equations *2 sections, supervising 4 honor students, fall '19*
2 sections, spr. '19
- INSTRUCTOR:** *waterbury, CT*
Multi-Variable Calculus *summer '17*
- TA:** *storrs, CT*
Multi-Variable Calculus *3 sections, spr./fall '17, spr./fall '18*
Multi-Variable Calculus *online, summer '18*
Calculus II *3 sections, fall '16*
Calculus I *3 sections, fall '15, spr. '16*
Calculus I *1 section, spr. '15*

In Class Presentations and Seminar Attended

- Class presentation: "A sketch of symmetric spaces" *spr. '19*
course title: fourier analysis on groups
- Seminar: "Trace Formula and Weyl's Law" *learning seminar, fall '18*

- Multiple presentations *working seminar, uconn, spr. '18/fall. '17*
 topic: hyperbolic metric on n th punctured Riemann sphere ($n = 3, 4, 6$)
- Doctoral oral exam: "Modular Function and Gauss Curvature" *fall '16*
- " $\Gamma(2)$ and Modular Function" *geometry reading section, spr. '15*
- Class presentation: "An introduction to Zariski Topology" *spr. '15*
 course title: intro. to geometry and topology 2
- Class presentation: "Primary Decomposition in Noetherian Ring" *fall '14*
 course title: commutative algebra

Computer Skills

SageMath, C, MATLAB, LaTeX, Blackboard, Piazza, WebAssign, WolframAlpha, GeoGebra.