

Curriculum Vitae

Seonghyeon Jeong

Personal Information

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Education

- Michigan State University(09/2016 ~)
 - Ph.D in Mathematics
 - Advisor : Jun Kitagawa
- Hong Ik University(03/2011 ~ 08/2016)
 - B.S in Mathematics Education

Research Interests

My research area are Optimal transport and related PDEs. Especially, my researches are about Optimal transport problem with general cost function in Dynamic settings and regularity theory of Generated Jacobian Equations.

Awards and Fellowships

- Silver Prize in University Students Contest of Mathematics (33rd, 34th),
 - Korea Mathematical Society (KMS), and Korea Institute for Advanced Study (KIAS)
 - 2014, 2015
- College Scholarship (Undergrad)
 - Hong Ik University

- 2014(FS), 2015(SS, FS), 2016(SS)

•University Fellowship (Grad)

- Michigan State University

- 2017(Summer)

Conference and Seminars attended

•Foundation for Mathematical Challenges

- Korea Institute for Advanced Study (KIAS)

•Student PDE Seminar

- Michigan State University

•Riviere-Fabes Symposium 2019

- University of Minnesota

•Workshop on Free Boundary Problems

- Columbia University in the City of New York

•SIAM PDE Webinar

- SIAM (Online)

•MBI Optimal Transport Workshop

- Ohio State University Mathematical Biosciences Institute (Online)

Seminar talks

•Partial Regularity of Solutions of the Monge-Ampere Equation(Student PDE Seminar, MSU, 2018)

•Underlying Geometry of Optimal Transport(Student Geometry/Topology Seminar, MSU, 2020)

•Strong MTW type condition to local Hölder regularity in generated Jaconian equations(MPHA seminar, TAMU, 2020)

Research and Publication

- Local Hölder regularity of solutions to generated Jacobian equations
 - Arxiv:[2004.12004](#)