Sungwoo Nam

CONTACT INFORMATION	University of Illinois at Urbana-Champaign Department of Mathematics 1409 W. Green St. Urbana, IL 61801	E-mail:sungwoo2@illinois.edu office : 108 Altgeld Hall

EDUCATION

University of Illinois Urbana-Champaign

Ph.D., Mathematics, August 2016-present

- Advisor: Sheldon Katz

Yonsei University

B.S. in Mathematics(with Honors), Feb 2015

RESEARCH INTERESTS

Enumerative geometry– especially local BPS invariants of reducible surfaces from 5d SCFT, Gromov-Witten invariants of hyperkähler manifolds, Moduli of sheaves on surfaces and threefolds.

PAPERS

(with S. Katz) *Local Enumerative Invariants of Some Simple Normal Crossing del Pezzo Surfaces*

TALKS

Curve counting and BPS invariants of local surfaces, Pusan National University, Apr 2021

Gromov-Witten invariants of compact hyperkahler manifolds and Jacobi forms, Elliptic cohomology days, University of Illinois, Jun 2019

TEACHING EXPERIENCE

- Teaching Assistant, Applied Linear Algebra, Fall, 2019
- Teaching Assistant, Calculus III, Fall, 2017, Spring 2018, Fall 2018, Spring 2019, Spring 2020, Fall 2020
- Teaching Assistant, Business Calculus Spring 2021

PAPER

(Joint with S. Katz) Local Enumerative Invariants of Rank 2 SNC Fano Surfaces

PROGRAMMING SKILLS

Basic : Python

LANGUAGES

Native : Korean
Proficient : English
Intermediate : Japanese
Beginner : French

REFERENCES

Sheldon Katz (217)265-6258, katzs@illinois.edu