

## Sungwoo Nam

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CONTACT INFORMATION	University of Illinois at Urbana-Champaign Department of Mathematics 1409 W. Green St. Urbana, IL 61801	E-mail:sungwoo2@illinois.edu office : 130 Altgeld Hall <a href="https://scream27.github.io/sungwoo/">https://scream27.github.io/sungwoo/</a>
EDUCATION	<b>University of Illinois Urbana-Champaign</b> Ph.D., Mathematics, August 2016-present <ul style="list-style-type: none"><li>• Advisor: Sheldon Katz</li></ul> <b>Yonsei University</b> 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 AND PREPRINTS	(with S. Katz) <i>Local Enumerative Invariants of Some Simple Normal Crossing del Pezzo Surfaces</i> , submitted, arXiv:2209.13031	
INVITED TALKS	<i>Gromov-Witten invariants of local reducible surfaces</i> , Algebraic Geometry Seminar, KIAS, Jan 2022  <i>Curve counting and BPS invariants of local surfaces</i> , Pusan National University, Apr 2021	
SERVICE	Organizer, UIUC Graduate Algebraic Geometry, Spring 2019 - Spring 2020	
CONFERENCES AND WORKSHOPS ATTENDED	<i>MSRI Summer Graduate School on Tropical Geometry</i> , 2022 <i>Hausdorff School on Perverse Sheaves and Enumerative Geometry</i> <i>PCMI 2019 Summer School on QFT and manifold invariants</i> , PCMI, 2019 <i>String Math 2018</i> , Tohoku University, 2018 <i>Crossing the Walls in Enumerative Geometry</i> , Snowbird, Utah, 2018 <i>Introductory workshop:Enumerative Geometry Beyond Numbers</i> , MSRI, 2018 <i>Enumerative Geometry, Mirror Symmetry, and Physics</i> , UIUC, 2017	
TEACHING EXPERIENCE	<ul style="list-style-type: none"><li>• Teaching Assistant, Applied Linear Algebra: Fall, 2019</li><li>• Teaching Assistant, Calculus III: Fall 2017, Spring 2018, Fall 2018, Spring 2019, Spring 2020, Fall 2020, Spring 2022, Fall 2022</li><li>• Teaching Assistant, Business Calculus: Spring 2021</li><li>• Graduate mentor, Illinois Geometry Lab, University of Illinois at Urbana-Champaign, Supervisor: Aron Heleodoro <i>Cyclic Vectors for Certain D-modules</i></li></ul>	

LANGUAGES

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

REFERENCES

**Sheldon Katz**

University of Illinois at Urbana-Champaign  
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**James Pascaleff**

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**Matthew Russell** (Teaching)

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**Michel van Garrel**

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**Christopher Dodd**

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