Yoel Groman

Curriculum Vitae

Contact information

Hebrew University of Jerusalem Einstein Institute of Mathematics Manchester House 301 Email address: <u>ygroman@mail.huji.ac.il</u>

Higher Education

Ph.D., Hebrew University of Jerusalem, Mathematics, 2015.
M.Sc. Magna Cum Laude, Hebrew University of Jerusalem, Mathematics, 2011.
B.A. Summa Cum Laude, Open University of Israel, Mathematics, 2008.

Research interests

Differential geometry, symplectic geometry, Floer theory, mirror symmetry.

Employment

Hebrew University of Jerusalem Senior Lecturer, July 2019-Columbia University, Simons Postdoctoral fellowship, July 2016- June 2019 ETH Zurich Postdoctoral Research Scientist, September 2015-July 2016,

Awards and grants

2021-23: BSF grant
2020-24: ISF grant
2016: Nessyahu prize
2013: Azrieli Foundation Graduate Fellowship.
2013: Zochovitzky Prize, Hebrew University Math department.
2010: Klein Prize, Hebrew University Math department.

Papers

The local Floer cohomology of indicator functions, submitted, arXiv:2307.11659,

Closed string mirrors of symplectic cluster manifolds (with U. Varolgunes), submitted, arXiv:2211.07523,

Framed E2 structures in Floer theory (with M. Abouzaid and U. Varolgunes), submitted, arXiv:2210.11027,

Locality of relative symplectic cohomology for complete embeddings, (with Umut Varolgunes, to appear in Compositio Mathematica, arXiv:2110.08891,

The wrapped Fukaya category for semi-toric SYZ fibrations, to appear in JEMS, arXiv:1805.03635,

The symplectic cohomology of magnetic cotangent bundles, (with Will J. Merry), to appear in Commentarii Mathematici Helvetici, <u>arXiv:1809.01085</u>,

Floer theory and reduced cohomology on open manifolds, to appear in Geomertry and Topology, arXiv:1510.04265.

A thick thin decomposition of J-holomorphic curves, preprint arXiv:1311.7564.

J-holomorphic curves with boundary in bounded geometry (with Jake P. Solomon), J. Symplect. Geom. 14 (2016), no. 3, 767-809 ,arXiv:1311.7484.

A reverse isoperimetric inequality for J-holomorphic curves (with Jake P. Solomon), Geom. Funct. Anal. 24 (2014), no. 5, 1448-1515, arXiv:1210.4001, DOI: 10.1007/s00039-014-0295-2.

Students and mentorship

Pranav Chakravarty 2021-2023, Postdoc

Ron Harel, 2022 -, Msc candidate

Guy Dorenstein, 2023 -, Msc candidate

Alejandro Vicente, 2023-, Postdoc

Academic activities

____Spring 2016,co-organizer, Informal seminar on Viterbo's theorem, ETH Zurich

Spring 2016-2019, co-organizer, **Symplectic Geometry, Gauge Theory and Categorification Seminar**, Columbia university

July 2019-present, co-organizer, Geometry and Topology Seminar, Hebrew university

Talks at conferences

July 2022, Mirror Symmetry for Looijenga Interiors and Beyond, Bogazici University September 2020, Floer-theoretic and algebro-geometric aspects of SYZ mirror symmetry, UC Berkley (Online) March 2018, Mirror Symmetry and Enumerative Geometry, UC Berkley January 2017, Workshop on HMS, university of Miami

Selected Invited Talks

March 2023, **Symplectic Geometry Seminar**, Stanford University March 2023, **M-Seminar**, KSU

June 2022, Symplectic Zoominar July 2021, Western Hemisphere Virtual seminar October 2018, Mirror Symmetry Seminar, Rutgers

December 2017, Symplectic Geometry Seminar, ETH Zurich December 2017, Geometry and Topology Seminar, Hebrew University of Jerusalem October 2017, Symplectic Geometry Seminar, IAS October 2016, Symplectic Geometry Seminar, University of Hamburg October 2015, Symplectic Geometry, Gauge Theory and Categorification Seminar, Columbia university. October 2015, Symplectic Geometry Seminar, ETH Zurich June, 2015, Workshop on Symplectic Seometry and Mathematical Physics, Sechuan university May, 2015, Geometry and Topology Seminar, Bar Ilan university May, 2015, Geometry and Topology Seminar, Hebrew University of Jerusalem June 2014, Joint meeting of the AMS and IMU, Tel Aviv University April 2014, Geometry and Topology Seminar, Haifa University May 2013, Analysis Seminar, Hebrew University of Jerusalem March 2012, Symplectic Geometry Seminar, Tel Aviv University January 2012, Mathematics Colloquium, Hebrew University of Jerusalem.

Teaching Experience

Fall 2022-2023, Differential Geometry of Curves and Curfaces

Fall 2022-2023, Measure Theory, Hebrew University

Spring 2022, Point Set topology, Hebrew University

Fall 2021-2022, Category Theory, Hebrew University

Fall 2020-2021, Differential Geometry, Hebrew University

Fall 2019-2020, Differential Geometry, Hebrew University

Spring 2019, Calc III, Columbia University.

Spring 2018, Topics in Symplectic topology, Columbia University

Spring 2017, Calc III, Columbia University.

Spring 2015, Advanced calculus II, teaching assistant, HUJI.

Spring 2014, Advanced calculus II, teaching assistant, HUJI.

Spring 2013, Advanced calculus II, teaching assistant, HUJI.

Fall 2012-2013, Linear algebra for chemists, teaching assistant, HUJI.

Spring 2012, Differential geometry, teaching assistant, HUJI.

Fall 2011-2012, Applied mathematics I, teaching assistant, HUJI.