

ÁKOS NAGY

CURRICULUM VITÆ

Last updated on February 19, 2019

Personal Information

PLACE AND DATE OF BIRTH: Szekszárd, Hungary | April 8, 1986
CITIZENSHIP: Hungarian
WEBSITE: akosnagy.com
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PROFESSIONAL MAILING ADDRESS: Department of Mathematics, Duke University
120 Science Drive, Durham, North Carolina, 27708

Education

- Ph.D. in Mathematics, Michigan State University, May 2016
Advisor: Thomas H. Parker
- M.Sc. in Mathematics, Budapest University of Technology, July 2011
Advisor: András I. Stipsicz
- M.Sc. in Physics, Budapest University of Technology, July 2010
Advisor: Gábor Etesi

Appointments

- William W. Elliott Assistant Research Professor, Duke University
January 1, 2018–present
Postdoc mentors: Mark Stern and Robert Bryant
- Affiliate Researcher, Alfréd Rényi Institute of Mathematics, Hungarian Academy of Science
June 2018–present
- Fields Postdoctoral Fellow, Fields Institute/University of Waterloo
July 1, 2017–December 31, 2017
Postdoc mentor: Spiro Karigiannis

- Visitor, Simons Center for Geometry and Physics
May 11, 2017–June 11, 2017
Program: Mathematics of topological phases of matter
- Associate Postdoctoral Researcher, Perimeter Institute
July 1, 2016–June 30, 2017
- Postdoctoral Fellow, University of Waterloo
July 1, 2016–June 30, 2017
Postdoc mentor: Benoit Charbonneau

Papers

- [4] Ákos Nagy and Gonçalo Oliveira: *From vortices to instantons on the Euclidean Schwarzschild manifold*
submitted (2017)
[ARXIV:1710.11535]
- [3] Ákos Nagy: *Irreducible Ginzburg–Landau fields in dimension 2*
The Journal of Geometric Analysis, Volume 28, Issue 2, 1853-1868 (2018)
[ARXIV:1607.00232 | DOI:10.1007/s12220-017-9890-4]
- [2] Ákos Nagy: *The Berry connection of the Ginzburg–Landau vortices*
Communications in Mathematical Physics, 350(1), 105-128 (2017)
[ARXIV:1511.00512 | DOI:10.1007/s00220-016-2701-0]
- [1] Gábor Etesi and Ákos Nagy: *S-duality in Abelian gauge theory revisited*
Journal of Geometry and Physics 61, 693-707 (2011)
[ARXIV:1005.5639 | DOI:10.1016/J.GEOMPHYS.2010.12.007]

Invited talks

Future

23. *The 11th IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, "Mathematical perspectives in quantum mechanics and quantum chemistry" Session* (conference), Athens, Georgia, April 17-19, 2019

Past

22. *Mini-conference on Monopoles* (conference), Tuscon, Arizona, February 17-21, 2019

21. University of Maryland, Geometry and Topology Seminar, February 11, 2019
20. *Geometry and Physics of Gauge Theories at Infinity* (conference), Saskatoon, Saskatchewan, August 3-6, 2018
19. *SIAM Annual Meeting 2018, Quantum Dynamics Minisymposium* (conference), Portland, Oregon, July 9-13, 2018
18. Duke University, Geometry and Topology Seminar, February 26, 2018
17. Rényi Institute, Algebraic Geometry and Differential Topology Seminar, December 15, 2017
16. *CMS Winter Meeting* (conference), University of Waterloo, December 8-11, 2017
15. Perimeter Institute, Mathematical Physics Seminar, December 4, 2017
14. University of Waterloo, Geometry and Topology Seminar, December 1, 2017
13. Michigan State University, Institute for Mathematical and Theoretical Physics, Mathematical Physics and Gauge Theory Seminar, October 3, 2017
12. Postdoctoral Seminar of the *Geometric Analysis Thematic Program*, Fields Institute, August 17, 2017
11. *Mathematical Congress of the Americas* (conference), Montréal, July 24-28, 2017
10. *The Sen Conjecture and Beyond* (conference), UCL, June 19-23, 2017
9. *Mathematics of topological phases of matter* (thematic program), Simons Center for Geometry and Physics, May 23, 2017
8. Caltech, Noncommutative Geometry Seminar, March 8, 2017
7. CIRGET UQAM, Geometry and Topology Seminar, February 24, 2017
6. University of Waterloo, Geometry and Topology Seminar, September 23, 2016
5. McMaster University, Geometry and Topology Seminar, September 16, 2016
4. *AMS Fall Eastern Sectional Meeting* (conference), Rutgers University, November 14-15, 2015
3. Budapest University of Technology, Geometry Seminar, December 16, 2014
2. *Algebra, Geometry, and Mathematics Physics VI* (conference), Tjärnö, October 25-30, 2010
1. Institute for Particle and Nuclear Physics, Wigner Research Centre for Physics, Hungarian Academy of Sciences, Theoretical Physics Seminar, March 12, 2010

Service

- Co-organizer, Geometry/Topology Seminar, Duke University, 2018-present
- Referee for Communications in Mathematical Physics
- Reviewer for Mathematical Reviews

Awards, Scholarships, and Grants

AMS-Simons Travel Grant, 2018-2020

Dissertation Completion Fellowship Award, MSU, 2016

Douglas A. Spragg Endowed Fellowship in Mathematics Award, MSU, 2015

Dissertation Continuing Fellowship Award, MSU, 2015

Herbert T. Graham Scholarship Award, MSU, 2014

Dr. Paul and Wilma Dressel Endowed Scholarship Award, MSU, 2013

Scholarship of the Hungarian Republic, 2008

Supervised students

1. Christopher Lang, University of Waterloo, Winter 2017.

Supported by departmental USRA and co-supervised with Benoit Charbonneau.

Professional Memberships

American Mathematical Society (AMS)

International Association of Mathematical Physics (IAMP)

Society for Industrial and Applied Mathematics (SIAM)

Languages

Hungarian: Native

English: Fluent

Other skills

\LaTeX : I mean, pretty good

Coding in Go/C++: Okayish

Krav Maga: Level 3 (CT 707)

Harmonica: Beginner