

# ÁKOS NAGY

Last updated on August 8, 2017

## PERSONAL INFORMATION

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PLACE AND DATE OF BIRTH: Szekszárd, Hungary | April 8, 1986  
CITIZENSHIP: Hungarian  
WEBSITE: akosnagy.com  
PROFESSIONAL MAILING ADDRESS: Fields Institute  
222 College Street, Toronto, Ontario, Canada M5T 3J1

## EDUCATION

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

## APPOINTMENTS

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### Present

- Fields Postdoctoral Fellow, Fields Institute/University of Waterloo  
July 1, 2017 – December 31, 2017  
Postdoc mentor: Spiro Karigiannis

### Past

- Postdoctoral Fellow, University of Waterloo  
July 1, 2016 – June 30, 2017  
Postdoc mentor: Benoit Charbonneau

### Future

- William W. Elliott Assistant Research Professor, Duke University  
January 1, 2018 – June 30, 2020  
Postdoc mentors: Mark Stern and Robert Bryant

## Other

- 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

## PAPERS

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### Published

3. **Ákos Nagy:** *Irreducible Ginzburg–Landau fields in dimension 2*, The Journal of Geometric Analysis (2017)  
[ 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 ]

### In preparation

- **Benoit Charbonneau and Ákos Nagy:** *Monopoles with non-maximal symmetry breaking*
- **Ákos Nagy:** *Concentrating Majorana spinors on manifolds*

## INVITED TALKS

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### Future

12. *CMS Winter Meeting* (conference), University of Waterloo, December 8-11, 2017

### Past

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, Theoretical Physics Seminar, March 12, 2010

## AWARDS AND SCHOLARSHIPS

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DISSERTATION COMPLETION FELLOWSHIP AWARD, 2016 (COLLEGE OF NATURAL SCIENCE)  
DOUGLAS A. SPRAGG ENDOWED FELLOWSHIP IN MATHEMATICS AWARD, 2015  
DISSERTATION CONTINUING FELLOWSHIP AWARD, 2015 (COLLEGE OF NATURAL SCIENCE)  
HERBERT T. GRAHAM SCHOLARSHIP AWARD, 2014  
DR. PAUL & WILMA DRESSEL ENDOWED SCHOLARSHIP AWARD, 2013  
SCHOLARSHIP OF THE HUNGARIAN REPUBLIC, 2008

## SUPERVISED STUDENTS

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1. Christopher Lang, University of Waterloo, Winter 2017. Supported by departmental USRA and co-supervised with Benoit Charbonneau.

## LANGUAGES

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HUNGARIAN: Native  
ENGLISH: Fluent

## OTHER SKILLS

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$\text{\LaTeX}$ : Pretty good  
CODING IN C: Okayish  
KRAV MAGA: Level 3 (CT 707)