
Arundhathi Krishnan

CONTACT INFORMATION

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School of Mathematical Sciences
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16A, Singapore Gardens
Gubbalala Gate, Kanakapura Road
Bangalore, India - 560062

RESEARCH EXPERIENCE

University College Cork, Ireland
Postdoctoral Fellow

October 2018- Present

University College Cork, Ireland
Research Visit

April- May 2018

Indian Statistical Institute, Bangalore

**November 2017- September
2018**

Visiting postdoctoral scientist

RESEARCH INTERESTS

Functional analysis, operator theory, operator algebras.

EDUCATION

Indian Institute of Technology Madras, Chennai **February 2018**
Ph.D., Mathematics

Indian Institute of Technology Madras, Chennai **2012**
M.Sc., Mathematics
CGPA : 9.5/10

Madras Christian College, Chennai **2010**
B.Sc., Mathematics
Aggregate : 89.21
Aggregate in Mathematics : 96.57

The Valley School, Bangalore **2007**
Indian School Certificate Examination (ISC)
Aggregate : 94.17%

HONOURS AND ACHIEVEMENTS

- Awarded Government of Ireland Postdoctoral Fellowship for two years (**Commenced in October 2018**)
- Awarded CSIR research fellowship to pursue the Ph.D. programme in Mathematics (**October 2012 onwards**)
- Awarded Half Time Research Assistantship by IIT Madras to pursue the Ph.D. programme in Mathematics (**July 2012 onwards**)
- Received prizes of merit for highest CGPA in M.Sc. in the Institute Day-2012 and 49th Convocation IIT Madras (**2012**)
- Awarded National Board for Higher Mathematics M.Sc. Scholarship (**2011- 2012**)
- Awarded Institute Merit Scholarship by IIT Madras (**2010- 2012**)
- Secured an All India Rank of 12 (out of about 2500 candidates) in the Joint Admission Test for M.Sc. conducted by the IITs (**2010**)
- Received prizes of merit for performance in B.Sc. in Madras Christian College (**2009, 2012**)
- Awarded NCERT National Talent Search Examination (NTSE) Scholarship (**2005-2010**)

PUBLICATIONS

1. Arundhathi Krishnan and S. H. Kulkarni, *Pseudospectrum of an element of a Banach algebra*, Oper. Matrices **11** (2017), no. 1, 263–287, doi:10.7153/oam-11-18.
2. Arundhathi Krishnan and S. H. Kulkarni, *Pseudospectra of elements of reduced Banach algebras*, Adv. Oper. Theory **2** (2017), no. 4, 475–493, doi:10.22034/aot.1702-1112.
3. Arundhathi Krishnan and S. H. Kulkarni, *Pseudospectra of elements of reduced Banach algebras II*, Funct. Anal. Approx. Comput. **10** (2018), no. 2, 33-45.

CONFERENCE TALKS

1. “Markovianity and the Thompson Monoid F^+ ”, contributed talk at *International Workshop on Operator Theory and Applications (IWOTA) 2019*, University of Lisbon, July 2019.
2. “Markovianity and the Thompson Monoid F^+ ”, participant talk at *Young Mathematicians in C^* -algebras (YMC *A) 2019*, University of Copenhagen, August 2019.
3. “Pseudospectra of elements of reduced Banach algebras”, invited talk at *SHK Fest*, IIT Madras, Chennai, June 2018.
4. “Pseudospectra of elements of reduced Banach algebras”, poster presentation at *Indian Women and Mathematics Annual Conference 2017*, IISc Bangalore, July 2017.
5. “Determining elements of a Banach algebra through pseudospectra”, contributed talk at *Preservers Everywhere 2017*, Bolyai Institute, University of Szeged, Szeged, June 2017.
6. “Pseudospectra of elements of reduced Banach algebras”, contributed talk at *International Workshop on Operator Theory and Applications (IWOTA) 2016*, Washington University, St. Louis, July 2016.

LINKS

1. [Research Gate](#)
2. [Google Scholar](#)

REFERENCES

S. H. Kulkarni (Ph.D. Thesis Advisor) shk@iitm.ac.in	Professor, Department of Mathematics, IIT Madras Chennai 600036
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REVIEWER DUTIES

- Journal of the Australian Mathematical Society
- The Journal of Analysis

TEACHING
ASSISTANCE

- At IIT Madras:
 - Calculus of a single variable (B.Tech. course)
 - Calculus of several variables (B.Tech. course)
 - Measure and Integration (M.Sc. course)
- At ISI Bangalore
Analysis I (B.Math. course)
- Advanced Training in Mathematics Annual Foundation School I 2014, held at IIT Madras:
 - Measure Theory
 - Topology
- Mentored Jyoti Saikia of North Eastern Regional Institute of Science and Technology, Arunachal Pradesh working under the supervision of Prof. TSSRK Rao, ISI Bangalore Centre, December 2017.
- Summer School for Women in Mathematics and Statistics, May 2018.
- Staff for UCC Mathematics Enrichment Programme, 2018-2019.

SUMMER SCHOOLS
AND WORKSHOPS

- **IASc-INSA-NASI Summer Research Fellowship**
Department of Mathematics, Indian Institute of Science, Bangalore - 2009
Guide: Prof. Manjunath Krishnapur
Area of Work: Probability Theory
- **IASc-INSA-NASI Summer Research Fellowship**
Department of Mathematics, Indian Institute of Science, Bangalore - 2010
Guide: Prof. Manjunath Krishnapur
Area of Work: Mathematical Analysis
- **TIFR VSRP**
School of Mathematics, Tata Institute of Fundamental Research, Mumbai - 2011
Guide: Prof. S. Subramanian
Area of Work : Topics in Group Theory and Ring Theory
- **Recent Advances in Operator Theory and Operator Algebras**
Indian Statistical Institute, Bangalore - 2012
- **Advanced Instructional School in Operator Theory**
Indian Statistical Institute, Bangalore - 2014
- **Advanced Instructional School in Operator Algebra/ Theory**
Institute of Mathematical Sciences, Chennai - 2016
- **Modern aspects of Function Theory, Operator Theory and Operator Algebras**
Indian Statistical Institute, Bangalore - 2018