

# ALI IMAD RAAD – CURRICULUM VITAE

France House Mathematics PhD Office, Queen Mary University of London, E1 4QA

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## PERSONAL

Name: Ali Imad Raad  
D.o. B: 11 Sep. 1993  
Nationality: Swedish

## ACADEMIC

- **PhD Student**  
*Queen Mary University of London*  
Supervisor: Dr. Xin Li  
Oct. 2017 – Jun. 2021
- **Master of Advanced Study in Pure Mathematics (MASt.)**  
*The University of Cambridge*  
Oct. 2015 – Jun. 2016
- **Bachelor of Science in Honours Mathematics (BSc. Hons.)**  
*The University of Edinburgh*  
Sep. 2012 – Jul. 2015
- **International Baccalaureate Diploma Programme (IB)**  
*Malmö Borgarskola*  
Aug. 2009 – Aug. 2012

## RESEARCH

My research interests lie in  $C^*$ -algebras, specifically in Cartan subalgebras of  $C^*$ -algebras. I care about existence and uniqueness of such subalgebras in certain classes of inductive limit  $C^*$ -algebras.

## RESEARCH REPORTS AND PROJECTS

- ***Almgren's Frequency Function and Unique Continuation (Master's thesis)***  
Supervised by Dr. Otis Chodosh, University of Cambridge  
Submitted: Apr. 2016  
Grade: Distinction
- ***Constructive Mathematics (Bachelor's thesis)***  
Supervised by Dr. Antony Maciocia, University of Edinburgh  
Submitted: Apr. 2015  
Grade: First Class

- ***The  $q$ -commuting invariants of some automorphisms of finite order acting on the  $q$ -division ring (Summer Research Project)***  
Supervised by Dr. David Jordan, University of Edinburgh  
Submitted: Sep. 2014  
[https://www.wiki.ed.ac.uk/display/SciEngSchol/Previous+Reports+-+College?preview=/177115883/244162054/College Raad.pdf](https://www.wiki.ed.ac.uk/display/SciEngSchol/Previous+Reports+-+College?preview=/177115883/244162054/College+Raad.pdf)

## CONFERENCE ATTENDANCE

### 2019

- **Groupoids and Operator Algebras. Applications to Analysis, Geometry and Dynamics.**  
*Orleans, France*
- **British Mathematical Colloquium**  
*Lancaster, UK*

### 2018

- **Supporting Postgraduates who Teach Mathematics and Statistics, Isaac Newton Institute for Mathematical Sciences**  
*Cambridge, UK*
- **Heilbronn Annual Conference**  
*Bristol, UK*
- **Noncommutative Geometry and Operator Algebras (NCGOA).**  
*Muenster, Germany*

### 2017

- **Young Researchers in  $C^*$ -Algebras (YMC\*A)**  
*Copenhagen, Denmark*

## ORGANIZATIONAL

### 2019

- **Queen Mary Internal Postgraduate Seminar**  
QMUL, Jan. – Apr.
- **GradFest: Queen Mary Olympiad (QMO)**  
QMUL, Feb.

### 2018

- **Queen Mary Internal Postgraduate Seminar**  
QMUL, Oct. – Dec.

### 2015

- **ILW: Cantor's Contest**  
University of Edinburgh, Feb.

### 2014

- **ILW: University of Edinburgh Mathematical Olympiad (UEMO)**  
University of Edinburgh, Feb.

- **ILW: Pythagoras Quest**  
University of Edinburgh, Feb.

## TALKS GIVEN

**2018**

- ***“Groupoids: A Gentle Introduction”***  
*Queen Mary Internal Postgraduate Seminar, PhD Induction Day, Oct.*

**2017**

- ***“An Introduction to the Spectral Theory of  $C^*$ -algebras”***  
*Queen Mary Internal Postgraduate Seminar, Nov.*

**2014**

- ***“Paradoxes of Infinity”, Masterclass***  
*Heriot-Watt University, Nov.*

**2013**

- ***Invited Speaker at MIS Launch***  
*Malmö Stadshus, Apr.*

**2012**

- ***Invited Speaker at the Pythagoras Quest National Final in Mathematics***  
*Handelskammaren, Jun.*
- ***Invited Speaker at Malmö Näringslivsdag***  
*Malmö Swedbank Stadion, Feb.*

## ACADEMIC EMPLOYMENT (QMUL)

Jan. 2019 – Jun. 2019

- ***TA and Marker for MTH 4115: Vectors and Matrices***
- ***Marker for SEF 015: Discrete Mathematics***

Oct. 2018 – Nov. 2018

- ***TA and Demonstrator for MTH 5104: Continuity and Convergence***
- ***Demonstrator and Marker for MTH 5112: Linear Algebra 1***
- ***Marker for MTH 5123: Differential Equations***

Jan. 2018 – Jun. 2018

- ***TA and Marker for MTH 4104: Introduction to Algebra***

## OTHER EMPLOYMENT

- ***Teacher of Mathematics and Physics***  
StudyNova  
Nov. 2016 – Mar. 2017
- ***Substitute Teacher in Mathematics and Physics***  
Malmö Stad Vikariebanken  
Sep. 2016 – Dec. 2016

- ***Strachan Scholarship Mathematics Summer Project***  
The University of Edinburgh  
Aug. 2014 – Sep. 2014
- ***Substitute Teacher in Mathematics and Physics***  
Malmö International School (MIS)  
Aug. 2013 – Sep. 2013
- ***University/High-school Mathematics Tutor***  
Malmö Föreningar  
Jun. 2013 – Aug. 2013
- ***Managebac Administrator***  
Malmö International School (MIS)  
May. 2013 – Aug. 2013

## ACADEMIC AWARDS & SCHOLARSHIPS

- ***School of Mathematics PhD Scholarship***  
Queen Mary University of London, Oct. 2017 – Mar. 2021  
Value: Full tuition + Maintenance grant of ca. £16 800 per annum
- ***Ann Cook Prize (1<sup>st</sup> place)***  
Queen Mary University of London, Apr. 2019  
Value: £200
- ***Edinburgh Award***  
University of Edinburgh, May 2015
- ***Strachan Scholarship***  
University of Edinburgh, Apr. 2014  
Value: £700
- ***International Baccalaureate 45 Points Award***  
Malmö Borgarskola, Aug. 2012  
Value: £700
- ***FH Kockums Stipend***  
Malmö FH Kockums, 2012-2016  
Value: Ca. £200 per annum
- ***Matematikπlen Mathematics Competition (2<sup>nd</sup> place)***  
Lund University, Apr. 2012
- ***Rotaryklubb Stipend***  
Malmö Rotaryklubb, Dec. 2011  
Value: Ca. £1500
- ***International Young Physicists Tournament (IYPT) (Bronze Medal)***  
IYPT Tehran, Jul. 2011
- ***Stanford University Education Programme for Gifted Youth Award***  
Stanford University, Jun. 2011
- ***Purple Comet International Mathematics Competition (3<sup>rd</sup> Place)***  
Stanford University, Apr. 2011

- ***Kängurutävling Sweden (4<sup>th</sup> Place)***  
Nationellt Centrum för Matematikutbildning (NCM), Apr. 2010
- ***European Council of International Schools Award***  
Söderkulla International School, Jun. 2009
- ***French Olympiad Bronze Medal***  
Malmö Borgarskola, May. 2009

## **SOCIETAL & ORGANIZATIONAL MEMBERSHIPS**

- ***Queen Mary University of London Chess Society***  
Sep 2017 – present
- ***Queen Mary University of London Music Society***  
Sep 2017 – Sep 2018
- ***The Institute of Mathematics and its Applications***  
United Kingdom, Sep. 2012 – present
- ***University of Edinburgh Kickboxing Society (UEKS)***  
Sep. 2014 – Jul. 2015
- ***Maths Outreach Team (MOT)***  
University of Edinburgh, Sep. 2013 – Jul. 2015
- ***Magicians of the UK (FB)***  
Sep. 2012 – Jul. 2015

## **COMPUTER SKILLS**

- Maple
- MATLAB
- LaTeX

## **LANGUAGES**

- English, Swedish (native)
- Arabic (fluent)
- French (basic)

## **HOBBIES**

- Card Magic
- Writing Poetry
- Chess

## IN THE PRESS

- <http://www.sydsvenskan.se/2014-07-30/borgarskolans-mattegeni-gar-hem-i-edinburgh>  
Sydsvenskan, 2014
- <https://www.youtube.com/watch?v=oLQXaueu2N8>  
Malmö Stadshus, 2013
- <http://sverigesradio.se/sida/artikel.aspx?programid=2576&artikel=5186055>  
Sveriges Radio, 2012
- <http://www.sydsvenskan.se/2012-07-09/mattevan-fick-alla-siffror-ratt>  
Sydsvenskan, 2012
- <http://www.handelskammaren.com/press/nyheter/nyhet/artikel/riksfinalen-naermar-sig-pythagoras-quest-2012/>  
Handelskammaren, 2012
- [http://www.handelskammaren.com/fileadmin/user\\_upload/Om\\_Handelskammaren/SSNL\\_dokument/SSNL\\_2.12\\_final.pdf](http://www.handelskammaren.com/fileadmin/user_upload/Om_Handelskammaren/SSNL_dokument/SSNL_2.12_final.pdf)  
Handelskammaren, 2012
- <http://ncm.gu.se/node/5425>  
Nationellt Centrum för Matematikutbildning, 2011
- <http://mikaellarson.se/2011/05/112/>  
Mikael Larsson, 2011