



# Muhammad Sami Siddiqui

## Curriculum Vitae

### Education

- 2016–2023 **PhD in Mathematics**, *Institute of Business Administration*, Karachi  
Computational Mathematics & Stability Analysis
- 2013–2015 **Master of Science in Mathematics**, *Institute of Business Administration*, Karachi  
Abstract Algebra & Category Theory
- 2009–2012 **Bachelor of Science in Mathematics**, *Federal Urdu University*, Karachi  
Specialized in Mathematics(Pure & Applied)
- 2006–2008 **Intermediate**, *Govt. Superior Sci. College*, Karachi  
Pre-Engineering
- 2004–2006 **Matriculation**, *Al-Shams School*, Karachi  
Science

### Doctoral Thesis

- Title **Stability Analysis and Approximation Methods for Euler's Elastica Problem**
- Supervisor Dr. Abdul Majid

### Masters Thesis

- Title **Categorical representation of Polylogarithmic groups**
- Supervisor Dr. Raziuddin Siddiqui

### Research Experience & Achievement

#### Research Achievement

- Publication **Majid, A.; & Siddiqui, S.**, *Self-contact of a flexible loop under uniform hydrostatic pressure*, EUROPEAN JOURNAL OF MECHANICS - A/SOLIDS, Volume 84  
November–December 2020

#### Stipend & Research Funding

- 2013 – 2016 **MS Mathematics**, *IBA*, Khi, Monthly Stipend
- 2017 – 2022 **PhD Mathematics**, *IBA*, Khi, Monthly Stipend
- 2022 **Secure research travel grant**, *from IBA Karachi*, Contributed talk at SWAM 2022,  
Charles University  
Prague, Czech Republic

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### Conference-Seminar-Workshop Presentation

- Conference Talk **Approximation methods for the Euler's elastica ring model and its stability analysis**, *XIII Annual International Conference of the Georgian Mathematical Union*, Batumi, Georgia, Shota Rustaveli State University  
04 Sept 2023 to 09 Sept 2023
- Conference Talk **Euler's elastica model**, *Fifteenth Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences*, Albena, Bulgaria  
21st June 2023
- Conference Talk **Euler Elastica Model**, *International Conference of Young Mathematicians*, Institute of Mathematics of NAS of Ukraine, Kyiv, Ukraine  
1st June 2023
- Research Colloquia **Mathematical Treatment of Euler Elastica Model**, *IBA-Khi*, May 2023
- Contributed Talk **Euler Elastica Model & Its Treatment**, *SWAM 2022*, University of Charles, Prague, Czech Republic  
Nov 2022
- Research Talk **Stability & Bifurcation Analysis of Euler's Elastica Model**, *IBA-Khi*, Oct 2022
- Research Talk **Euler Elastica Model & Its Treatment**, *IBA-Khi*, Aug 2022

### Workshop Attended

- 2023 **Nonlinear Dispersive Waves**, *University College Cork*, Ireland
- 2018 **2nd IWR-CUI Joint Workshop on Numerical Solutions of Partial Differential Equations**, *COMSATS*, Islamabad
- 2017 **Computational Biology Workshop**, *Habib University*, Karachi

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### Teaching Experience

- May 2024 to Present **Assistant Professor**, *Faculty of Computer Science & Engineering*, IQRA UNIVERSITY, Karachi
- Description Teaching undergraduate math courses and research.
- Jan 2023 to Present **Adjunct Faculty**, *Integrated Science and Mathematics*, HABIB UNIVERSITY, Karachi
- Jan 2017 to Dec 2022 **Teaching**, *School of Mathematics and Computer Sciences*, INSTITUTE OF BUSINESS ADMINISTRATION, Karachi
- Aug 2016 to Dec 2016 **Teaching Assistant**, *INSTITUTE OF BUSINESS ADMINISTRATION*, Karachi

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### Software skills

- Mathematics Software **Mathematica , Matlab & Maple**

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## Extra-Circular Activities

- 2014–2015 **Manager** of student's society, IBA Maths and Astronomy Club(IMAC).
- 2015 Organized IMAC's three day grand event, **IBA Mathematika**.
- 2014–2016 Organized Various Research Seminars and Research Talks at IBA Khi under IMAC.