Abdullah Bin Abu Baker

Curriculum Vitae

Education

2002-2005	**B.Sc. (Honours) in Mathematics**, *Aligarh Muslim University*, India, *% − 71.6*.
2005-2007	**M.Sc. in Mathematics**, *Aligarh Muslim University*, India, *% − 72.5*.
2007-2013	**Ph.D. in Mathematics**, *IIT Kanpur*, India, *CPI − 8.25*.

Ph.D. Thesis

Title	*On Some Classes of Projections in Banach Spaces and Related Topics.*
Supervisor	Prof. Sudipta Dutta.
Defence Date	September 03, 2013.
Description	In this thesis we obtained several results concerning the representation of generalized bi-circular projections on arbitrary Banach spaces. We also proved structure theorems for generalized 3-circular projections on some finite dimensional Banach spaces.

Experience

Research

Jun-Aug 13	**Visitng Scientist**, INDIAN STATISTICAL INSTITUTE, Bangalore Centre, India.
	Worked on some problems in Banach space theory under Prof. T. S. S. R. K. Rao.
Oct-Dec 13	**Postdoctoral Fellow**, NATIONAL SAT-SEN UNIVERSITY, Kaohsiung, Taiwan.
	Worked on reflexivity problems under Prof. Ngai-Ching Wong.
Mar 14-Mar 15	**Visitng Scientist**, INDIAN STATISTICAL INSTITUTE, Delhi Centre, India.
	Worked on some problems related to the Riemannian mean of positive definite matrices under Prof. Rajendra Bhatia.

Teaching

Mar-Jul 15	**Assistant Professor**, ALIGARH MUSLIM UNIVERSITY, India.
Jul-Dec 15	**Visiting Faculty**, IIIT ALLAHABAD, India.
Dec 15 - Present	**Assistant Professor**, IIIT ALLAHABAD, India.

Ph.D. Students

2017-2022	Rahul Maurya, Visiting Scientist, Indian Statistical Institute, Bangalore Centre, India. **Thesis Title:** *A study of Some Classes of Operators on Banach Spaces.*

2021 -   Himanshu Kumar.

Publications

- (With Rahul Maurya) *Reflexivity of isometries on spaces of continuously differentiable functions*, **Ricerche di Matematica**, to appear.
- (With Fernanda Botelho) *Numerical index of vector-valued function spaces*, **Linear and Multilinear algebra**, to appear.
- (With Rahul Maurya) *Projections in the convex hull of isometries on $C^2[0,1]$*, **Positivity** 25 (2021), no. 5, 2003-2016.
- (With Rahul Maurya) *Local isometries on subspaces and subalgebras of function spaces*, **Operators and Matrices** 16 (2022), no. 1, 11-18.
- *Reflexivity of isometries of order n*, **Colloquium Mathematicum**, 159 (2020), no. 2, 223-230.
- *Generalized 3-circular projections for unitary congruence invariant norms*, **Banach J. Math. Anal.**, 10 (2016), no. 3, 451-465.
- (With S. Dutta) *Structures of generalized 3-circular projections for symmetric norms*, **Proc. Indian Acad. Sci. Math. Sci.**, 126 (2016), no. 2, 241-252.
- (With Fernanda Botelho & James Jamison) *Representation of generalized bi-circular projections on Banach spaces*, **Acta Sci. Math. (Szeged)** 80 (2014), no. 3-4, 591-601.
- (With S. Dutta) *Projections in the convex hull of three surjective isometries on $C(\Omega)$*, **J. Math. Anal. Appl.**, 397 (2011), no. 2, 878-888.

Workshops Conducted

Dec 31, 21 -   Workshop on Geometry of Banach Spaces and its Applications (WGBSA-2021-22), IIIT
Jan 02, 22   Allahabad, India.

Jan 14-16, 22   Workshop on Functional Analysis and its Applications (WFAA-2022), IIIT Allahabad, India.

Talks/International Visits

Dec 21   "Numerical index of vector-valued function spaces", **Invited Speaker**, Workshop on Geometry of Banach Spaces and its Applications, IIIT Allahabad, India.

Jan 22   "Algebraic reflexivity of isometries on Banach spaces", **Invited Speaker**, Workshop on Geometry of Banach Spaces and its Applications, IIIT Allahabad, India.

Jan 22   "Foundations of Functional Analysis", **Invited Speaker**, Workshop on Functional Analysis and its Applications, IIIT Allahabad, India.

Jan 22   "Projections in the convex hull of isometries on Banach spaces", **Invited Speaker**, Workshop on Functional Analysis and its Applications, IIIT Allahabad, India.

September 20   "Some Glimpses of Probability Theory", **Speaker at technical session (Online Mode)**, Faculty Development Programme on "Data Sciences", Department of Information Science and Engineering, Global Academy of Technology, Bengaluru, India.

February 20   "Numerical index of vector-valued function spaces", **Invited Speaker**, Half-Day in Operator Theory Conference, The University of Memphis, USA.

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June 19	"Maps preserving general means of positive operators", **Talk** at the National Sun Yat-Sen University, Kaohsiung, Taiwan.
July 17	"Reflexivity-like problems in Banach spaces", **Paper Presentation**, Conference on Banach Spaces and Operator Theory with Applications, Adam Mickiewicz University, Poznan, Poland.
September 16	"Algebraic Reflexivity of the Set of Isometries of order n", **Talk** in TSSRK Fest, Indian Statistical Institute, Bangalore Centre, India.
October 15	"Generalized Bi-circular and 3-circular Projections on Banach Spaces and Related Topics", **Poster Presentation**, Workshop on Problems and Recent Methods in Operator Theory in Memory of James Jamison, The University of Memphis, USA.
October 15	"Generalized 3-circular Projections for Unitary Congruence Invariant Norms", **Paper Presentation**, American Mathematical Society Meeting, The University of Memphis, USA.
March 15	"Generalized 3-circular Projections on Function Spaces", **Talk** in Conference on Geometry of Banach Spaces and Operator Theory, IIT Kanpur, India.
November 13	"On some Classes of Projection in Banach Spaces", **Talk** at the National Sun Yat-Sen University, Kaohsiung, Taiwan.
May 12	"Algebraic Reflexivity of the Set of n-Isometries of C(X,E)", **Paper Presentation**, The International Conference of Mathematics and statistics, The University of Memphis, USA.

Conferences/Workshops Attended

June 15	International Conference on Recent Advances in Mathematical Biology, Analysis and Applications (ICMBAA 2015), Aligarh Muslim University, India.
December 13	International Workshop on Operator Theory and its Applications (IWOTA 2013), Indian Institute of Science, Bangalore, India.
August 10	International Congress of Mathematicians, 2010, Hyderabad. India.
August 10	ICM Satellite Conference on Functional Analysis and Operator theory, Indian Statistical Institute, Bangalore Centre, India.
June 09	Workshop on Geometry of Banach Spaces and Applications, Indian Statistical Institute, Bangalore Centre, India.
September 08	Research Workshop in Optimization Theory and Applications, IIT Kanpur, India.

Schools/Training

December 07	Fourth Annual Foundation School- I, IIT Kanpur, India.
May-July 07	Summer Fellowship Programme of IIT Madras under Prof. Veeramani P.
May-July 06	Summer visiting student-fellow of the Indian Academy of Sciences under Prof. Rajendra Bhatia, Indian Statistical Institute, Delhi Centre, India.

Extra Curricular Activities

February 17	Secured 1st position in 110 m Hurdles (Faculty) in ASMITA 2017, IIIT Allahabad.
2009 - 12	Students' Senate nominee in the Senate Student Affairs Committee, IIT Kanpur.
2010 - 11	Students' Senate nominee in Senate Post Graduate committee, IIT Kanpur.

2009 - 10	Senator for Ph.D. students in Students' Senate of IIT Kanpur.
2009 - 10	President of the Hall Executive Committee of Hall of Residence IV, IIT Kanpur.
December 08	Played in football team of IIT Kanpur, Inter IIT Sports Meet, IIT Madras.
2008	Secured 2nd position in Football in the Intra Hall Sports Competition of Hall of Residence IV, IIT Kanpur.

Awards/Scholarships

GATE 2007	All India Rank: 262 || GATE score: 361.
2006	Departmental Merit Scholarship, M.Sc. 1st year.
February 06	Winner and 3rd prizes in Quiz and Lecture competitions respectively, Aligarh Mathematical Society week, Department of Mathematics, Aligarh Muslim University, Aligarh.
2005	3rd rank in B. Sc. (Honours) Mathematics.

References

- *Prof. Fernanda Botelho*, Dunn Hall 363, Department of Mathematical Sciences, The University of Memphis Memphis, TN 38152, USA
  Email: mbotelho@memphis.edu || Phone: +1-901-678 3131.

- *Prof. T. S. S. R. K. Rao*, Stat Math Unit, Indian Statistical Institute, Bangalore Centre, India
  Email: tss@isibang.ac.in || Phone: +91-80-28483001.

- *Prof. Ngai-Ching Wong*, Department of Applied Mathematics, National Sun Yat-sen University, Kaohsiung 80424, Taiwan, ROC
  Email: wong@math.nsysu.edu.tw || Phone: +886-7-5252000 ext. 3818.

- *Prof. Lajos Molnar*, Department of Analysis, Bolyai Institute, University of Szeged, H-6720 Szeged, Hungary
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