



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.
Taught complex analysis and Integral transformations.
Dec 15 - Present **Assistant Professor**, IIIT ALLAHABAD, India.
Teaching Convex Optimization to 2nd year B.Tech. students.

Courses taught:

- Mathematics-I (Jul-Dec 16).
- Probability and Statistics (Jan-Jun 16).

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Publications

- *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.

Talks/International Visits

- 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.

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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. Sudipta Dutta*, Department of Mathematics and Statistics, IIT Kanpur, India
Email: sudipta@iitk.ac.in || Phone: +91-512-259 7132.
- *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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