Palaparthi Anantha Sai Sree Krishna

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POSITIONS HELD

- ASSISTANT PROFESSOR, Indian Institute of Technology Guwahati, March 2010 - Present.

- VISITING FELLOW, Tata Institute of Fundamental Research, Mumbai, September 2009 - February 2010.

- ADJUNCT INSTRUCTOR, State University of New York, Buffalo, NY, USA, August 2006 - May 2009.

- TEACHING ASSISTANT, State University of New York, Buffalo, NY, USA, September 2002 - May 2006.

- RESEARCH ASSISTANT, Universal Instruments Corporation, Binghamton, NY, USA, September 2000 - April 2002.

EDUCATION

- PH.D. in Mathematics, June 2009, SUNY University at Buffalo.

- M.A. in Mathematics, June 2004, SUNY University at Buffalo.

- GRADUATE COURSEWORK in Systems Science, August 2000 to May 2002, SUNY Binghamton University.

- B.TECH. in Mechanical Engg., July 2000, Jawaharlal Nehru Technological University, Hyderabad, India.

RESEARCH INTERESTS

- Low dimensional Topology, Knot Theory, Hyperbolic 3-manifolds, Heegaard Splittings of 3-manifolds, Surface Mapping Class Groups, 3-manifold Mapping Class Groups, Curve Complexes, Teichmuller Theory, Geometric Group Theory.

PUBLICATIONS

- Palaparthi S., *Closed Geodesic Lengths in Hyperbolic Link Complements in S^3*, International Journal of Pure and Applied Mathematics, Volume 83, No. 1, 2013.

- Mahanta K., Palaparthi S., *Distance 4 curves on closed surfaces of arbitrary genus*, Topology and its Applications, Volume 314, 2022.

- Palaparthi S., Panda S. *Reducing spheres of the genus-2 Heegaard splitting of S^3* (accepted for publication in Journal of Topology and Applications).

- Panda S., Palaparthi S., *Describing elements in the genus-2 Goeritz group of S^3* (under preparation).

PROJECTS COMPLETED

- National Programme on Technology Enhanced Learning (NPTEL) Video Course on Complex Analysis, MHRD, India, June 2011 - March 2013.

- Startup Grant Project, IIT Guwahati, April 2011 - March 2013.

Ph.D. Students

- Dr. Swapnendu Panda (Ph.D. 2021), Title of thesis: *Goeritz group of the genus two and genus three Heegaard splitting of the three-sphere.*

- Ms. Kuwari Mahanta (Currently working)

INVITED TALKS IN SEMINARS AND SHORT-TERM SCHOOLS

- Annual Foundation School III, Advanced Training in Mathematics School, IIT Guwahati, June 2022.

- Advanced Instructional School on Geometric Group Theory, Advanced Training in Mathematics School, (Online) hosted jointly by IIT Kanpur and North-East Hill University, Shillong, May 2022.

- National Program on Differential Equations - Theory, Computations and Applications, IIT Guwahati, June 2014.

- Advanced School and Discussion Meeting on Knot Theory and its Applications, IISER Mohali, 17 December 2013.

- Annual Foundation School III, Advanced Training in Mathematics School, University of Pune, June 2013.

- Mathematics Training and Talent Search Programme, IIT Kanpur, May 2012.

- Advanced Instructional School on Algebraic Topology, Advanced Training in Mathematics School, North-East Hill University, Shillong, June 2011.

- Teacher Training Program, North-East Hill University, Shillong, 14-15 December 2010.

- Thursday Colloquium, Tata Institute of Fundamental Research, Mumbai, November 2009.

- Geometry and topology seminar, SUNY Buffalo, March 2009.

- Joint mathematics meetings, Washington D.C., January 2009.

- MAA seaway section meeting, Siena College, October 2008.

- Geometry and topology graduate student seminar series, SUNY Buffalo, July 2008.

- Geometry and topology seminar, SUNY Buffalo, April 2007.

CONFERENCES/WORKSHOPS ATTENDED

- *1, 2, 3, Curves Surfaces and 3-Manifolds*, Nahsholim, Israel, May 2023.

- *Advanced School and Discussion Meeting on Knot Theory and its Applications*, IISER Mohali, December 2013.

- *International Congress of Mathematicians*, Hyderabad, India, August 2010.

- *RTG Workshop on Geometric Group Theory*, University of Michigan, Ann Arbor, April 2009.

- *Joint Mathematics Meetings*, Washington D.C., January 2009.

- *Graduate Conference in Algebra and Topology*, SUNY Binghamton, November 2008.

- *MAA Seaway section meeting*, Siena college, October 2008.

- *2008 Buffalo Geometry and Topology Conference*, Department of Mathematics, SUNY Buffalo, March 2008.

- *Winter Teaching workshop*, The Center for Teaching and Learning Resources, SUNY Buffalo, January 2003.

AWARDS

- Elected to WHO'S WHO AMONG STUDENTS IN AMERICAN UNIVERSITIES AND COLLEGES 2009 in recognition for outstanding merit and accomplishment.

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LANGUAGES KNOWN

- English, Telugu, Hindi, Sanskrit and Assamese.