PALAK ARORA

Department of Mathematics   Office: LIT 443
Little Hall   Email: palak.arora@ufl.edu
University of Florida
Gainesville, Florida 32611

Experience

University of Florida, Department of Mathematics,
Graduate Student, 2018 – present.

Education

Ph.D. Mathematics, University of Florida, 2018 – present
  Advisor: Michael Jury.

M.Sc. Mathematics, Indian Institute of Technology in Guwahati 2017

B.Sc. Mathematics, University of Delhi, 2015.

Fields of Research Interest

Functional analysis, complex variables, noncommutative function theory, operator theory.

Research

Preprints

1. Palak Arora
   A Constructive Proof of NC Fejér-Riesz Theorem, submitted, arXiv:2207.02174, 2022

2. Palak Arora, Meric Augat, Michael Jury, Meredith Sargent
   An Optimal Approximation Problem For Free Polynomials, submitted, arXiv:arXiv:2209.10373, 2022

Fellowships & Awards

University Graduate Student Teaching Award, Ph.D. Program, University of Florida, 2021

Certificate of Excellence in Teaching, Ph.D. Program, University of Florida, 2020

Jadav Prasad Chaliha Award for Academic Excellence, M.Sc., IIT, Guwahati, 2016

Institute Merit Scholarship (IMS), M.Sc., IIT, Guwahati, 2016

Dr. V.P. Sharma Memorial Scholarship B.Sc. (H) Mathematics, University of Delhi, 2012-13, 2014-15

Academic Award B.Sc. (H) Mathematics, University of Delhi, 2015

Professional Activities

Departmental Service

Professional Development Chair, Graduate Mathematics Association, 2022-2023
Website: https://people.clas.ufl.edu/palak-arora/seminars/professional-development-seminar/

Research Chair, The Association for women (AWM) Chapter, University of Florida, 2020

Seminars

Organizer, Analysis Seminar, University of Florida, 2022-2023
Website: https://people.clas.ufl.edu/palak-arora/seminars/analysis-and-probability-seminar/

Teaching

University of Florida

TA for MAC 1140: Precalculus: Fall 2018
Instructor for MAC 1140: Precalculus: Summer 2019, Summer 2020 (online section)

TA for MAC 2233: Survey of Calculus I: Spring 2019

TA for MAC 2311: Analytic Geometry and Calculus I: Fall 2019

TA for MAC 2312: Analytic Geometry and Calculus II: Spring 2020, Fall 2020, Spring 2021, Fall 2021

Instructor for MAC 2313: Calculus III: Summer 2021

MAS 4105: Linear Algebra: Spring 2022

Invited Presentations

WABASH Mini-conference, IUPUI, Indianapolis, November 2022

Women in Operator Theory (WinOT), University of Memphis, Memphis, Tennessee, October 2022

Operator Theory Talks for Early Researchers (OTTER), Online platform, September 2022

Contributed Presentations

Great Plains Operator Theory Symposium (GPOTS), Washington University, St. Louis, Missouri, May 2022

38th Southeast Analysis Meeting, Online, March 2022

Selected Workshops and Conference Participation

COMPLANE: The Next generation, Online Conference, June 2021

Early Career Workshop in Operator Theory and Operator Algebras, Online Conference, February 2021

2TART Conference, Online Conference, June 2020

AMS Special Session on Recent Progress in Operator Theory, University of Florida, November 2019

A Workshop for Teaching Assistants at University of Florida, Fall 2018

Miscellaneous

Programming Languages: C++, C, LaTeX, Python.