Curriculum Vitæ

Personal Data

Name: Issam Louhichi

Address: P. O. Box 1753

King Fahd University of Petroleum & Minerals

Dhahran 31262, Saudi Arabia

Phone: Office (+966) 3 860 1052; Home (+966) 3 860 6754

Fax: (+966) 3 860 2437 E-mail: issam@kfupm.edu.sa

Homepage: http://faculty.kfupm.edu.sa/math/issam/

Citizenship: Tunisian
Date of birth: June 07, 1977

Languages: Arabic, English, French.

Education

2005 Ph.D. in Mathematics. I defended my doctoral thesis titled *Products of Toeplitz operators on the Bergman space* on November 09, 2005. My thesis work was supervised by Professor Elizabeth Strouse (Université Bordeaux 1, France).

2002–2005 Ph.D. student in Mathematics at Université Bordeaux 1.

2001–2002 D.E.A. (Master): Pure mathematics at Université Bordeaux 1.

2000–2001 D.E.A. (Master) : Applied mathematics at Ecole Nationale d'Ingénieurs de Tunis.

1998–2000 Maîtrise (Bachelor) at Faculté des Sciences de Tunis.

Work Experience

2008—Up to now Assistant Professor at King Fahd University of Petroleum & Minerals (Dhahran, Saudi Arabia).

2008 Assistant Professor tenure-track position, Department of Mathematics, University of South Alabama (USA): Declined.

2006–2008 Visiting Assistant Professor at the University of Toledo (Ohio, USA).

2005–2006 Postdoctoral researcher at Université Bordeaux 1 (Bordeaux, France).

2002–2005 Associate instructor at Université Bordeaux 1 (Bordeaux, France).

Research

Main: Spaces of holomorphic functions and their operators. In particular:

Toeplitz operators on Bergman and Hardy spaces.

Products and commutativity of Toeplitz operators.

Secondary: Random products of mappings in metric spaces.

Publications

- 1) (with M. A. Khamsi) A convergence result on random products of mappings in metric spaces. Fixed Point Theory and Applications 2012, **2012**:44 (21 March 2012).
- 2) (with L. Zakasiasy) Quasihomogeneous Toepliz operators on the harmonic Bergman space. Archiv der Mathematik. Volume 98, Number 1 (2012), 49-60.
- 3) (with N. V. Rao) Roots of Toeplitz operators on the Bergman space. Pacific Jounal of Mathematics. Volume 252, Number 1 (2011), 127-144.
- 4) (with N. V. Rao and A. Yousef) Two questions on products of Toeplitz operators on the Bergman space. Complex Analysis and Operator Theory. Volume 3, Number 4 (2009), 881-889.
- 5) (with Ž. Čučković) Finite rank commutators and semicommutators of Toeplitz operators with quasihomogeneous symbols. Complex Analysis and Operator Theory. Volume 2, Number 3 (2008), 429-439.
- 6) (with N. V. Rao) *Bicommutants of Toeplitz operators*. Archiv der Mathematik. Volume **91** (2008), 256-264.
- 7) (with A. Olofsson) Characterizations of Bergman space Toeplitz operators with harmonic symbols. J. Reine Angew. Math. 617 (2008), 1-26.
- 8) Powers and roots of Toeplitz operators. The Proceedings of the American Mathematical Society. Volume 135, Number 5 (May 2007), 1465-1475.
- 9) (with E. Strouse and L. Zakariasy) Products of Toeplitz operators on the Bergman space. Integral Equation and Operator Theory. Volume 54 Number 4 (April 2006) 525-539.
- 10) (with L. Zakariasy) On Toeplitz operators with quasihomogeneous symbols. Archiv der Mathematik. Volume 85, Number 3 (2005), 248-257.

Teaching experience

• 2012-2013:

- * Fall Semester:
 - \star Functional Analysis I, MATH-535.
 - \star Calculus I, MATH-101.

• 2011-2012:

- * Fall Semester: Applied Calculus, MATH-132.
- \ast Spring Semester: Calculus III, MATH-201.

• 2010-2011:

- * Fall Semester: Applied Calculus, MATH-132.
- * Spring Semester: Applied Calculus, MATH-132.
- * Summer Term:
 - ★ Calculus II, MATH-102.
 - \star Engineering Mathematics, MATH-302.

2009-2010:

- * Fall Semester: Elements of Differential Equations, MATH-202.
- * Spring Semester: Elements of Differential Equations, MATH-202.
- \ast Summer Term: Introduction to Differential Equations and Linear Algebra, MATH-260.

• 2008-2009:

- * Fall Semester: Calculus I, MATH-101.
- \ast Spring Semester: Applied Calculus, MATH-132.
- * Summer Term:
 - * Elements of Differential Equations, MATH-202.
 - \star Applied Calculus, MATH-132.

• 2007-2008:

- * Fall Semester:
 - ★ Calculus II, MATH-1860.
 - \star Calculus III, Elements of Multivariable Calculus, MATH-2850.
 - * Applied statistics and Design of Experiments, ENGT-3010.
 - * Calculus-Life Sciences w/app II, MATH-1760.
- * Spring Semester:
 - \star Calculus III, Elements of Multivariable Calculus, MATH-2850.
 - \star Linear Algebra II, MATH-4310.

• 2006-2007:

- * Fall Semester:
 - * Calculus-Business w/app I, MATH-1260
 - * Calculus-Life Sciences w/app I, MATH-1750.
- * Spring Semester:
 - * Calculus for Eng Tech II, MATH-2460.
 - * Introduction to Abstract Algebra, MATH-3320.
- * Summer Semester: Numerical Methods and Linear Algebra, MATH-2890.

• 2005-2006:

- * Real analysis, second semester, Université Bordeaux I.
- * Linear algebra, probability and statistics, fourth semester, Université Bordeaux 1.
- \star Transforms, for students engineers, ESTIA Institute of advanced Industrial Technology.
- 2004–2005: Linear algebra, probability and statistics, second semester, Université Bordeaux 1.
- 2002–2003: Real analysis, second semester, Université Bordeaux 1.

E-Learning activities

- Active participant in the construction of a webpage for an online graduate course on Functional Analysis: http://www.drkhamsi.com/classe/FA/, in collaboration with Pr. Mohamed A. Khamsi from The University of Texas at El Paso (USA).
- Posting solutions for difficult homework problems.
- Posting challenging problems for online discussion.

Conferences and meetings

- UAE Math Day 2012. [April 14, 2012] American University of Sharjah (UAE).
- Second Math-Days of King Saud University. [March 14-15, 2012] King Saud University, Riyadh (Saudi Arabia).
- Southeastern Analysis Meeting XXVIII. [March 9-10, 2012] The University of Alabama in Tuscaloosa (USA).
- Seventh Advanced Course in Operator Theory and Complex Analysis. [June 20-24, 2010] El Puerto de Santa María (Spain).
- The First International Conference on Mathematics and Statistics, AUS-ICMS'10. [March 18-21, 2010] American University of Sharjah (UAE).

- International Conference on Analysis and Applications. [January 24-26, 2010] Sultan Qaboos University (Muscat, Oman).
- Séminaire d'Analyse de l'Institut de Mathématiques de Bordeaux. [September 21, 2009] Université Bordeaux 1 (France).
- Math Seminar. [July 4, 2009] King Saud University (Kingdom of Saudi Arabia).
- International Conference on Operator Theory ICOT 2009. [February 18-21, 2009] Sousse (Tunisia).
- Workshop on the occasion of the visit of Pr. John B. Conway. [February 11, 2009] Abu Dhabi campus of Zayed University (Emirates).
- Fifth advanced course in operator theory and complex analysis. [June 24-26, 2008] Seville (Spain).
- SEAM XXIII. [March 9-11, 2007] University of Richmond (USA).
- Spaces of holomorphic functions and their operators. [June 5-9, 2006] CIRM, Marseille (France).
- Ecole de Printemps d'Analyse Fonctionnelle [May 22-25, 2006] Rabat (Morocco).
- Second advanced course in operator theory and complex analysis. [June 8-11, 2005] Seville (Spain).
- Banach Algebras and their Application. [July 3-13, 2005] Bordeaux (France).
- Journées Complexes du Sud. [January 28-30, 2005] Moissac (France).
- Fourth Annuel Meeting of the European Research Network "Analysis and Operators". [May 1-7, 2004] Dalfsen (Netherlands).
- Bergman Spaces and Related Topics in Complex Analysis: a conference in honor of Boris Korenblum's 80th birthday. [November 20-22, 2003] Barcelona (Spain).
- Third Conference of the European Research Network "Analysis and Operators". [May 21-26, 2003] Tenerife, Canary Islands (Spain).

Theses & Dissertations

- 2009— Reviewer of the dissertation "Two problems in theory of Toeplitz operators on the Bergman space", submitted by A. F. Yousef in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Mathematics at the University of Toledo (Ohio, USA).
- 2009— Reviewer of the dissertation "Compactness criteria for Toeplitz operators on the Bergman space", submitted by B. A. Al-Suhaibani in partial fulfillment of the requirements for the degree of Masters of Science in Mathematics at King Saud University (Riyadh, Saudi Arabia).

2008— Reviewer of the dissertation "Algebraic properties of Toeplitz operators on the harmonic Bergman space", submitted by M. Al-Ali in partial fulfillment of the requirements for the degree of Masters of Science in Mathematics at King Saud University (Riyadh, Saudi Arabia).

Services

- Services to the Department
- 2011 2013 Member of the Department of Mathematics Advisory Committee.
 - Services to the University
- $2008-2013\,$ Member of the Admissions and Academic Standing Committee.
 - Services to the Mathematical Community at Large

Referee of:

- * Proceedings of the American Mathematical Society.
- * Journal of Integral Equations and Operator Theory.
- * Journal of Complex Analysis and Operator Theory.
- * Extracta Mathematicae.
- * Studia Mathematica.