

# CURRICULUM VITAE

## MILÈ KRAJCEVSKI

Department of Mathematics and Statistics  
University of South Florida,  
4202 E. Fowler Av. PHY114, Tampa, FL

### EDUCATION

**Ph.D.** in Mathematics, 1994. Binghamton University, State University of New York.

**B.S** in Mathematics, 1979 (with emphasis on education) St Cyril and Methodius University in Skopje, Macedonia

### POSITIONS HELD

**2008 Spring Semester:** Visiting Scholar, Department of Mathematics and Applications Università degli Studi di Milano-Bicocca, Milano, Italy,

**2000 Spring Semester:** Visiting Assistant Professor, Department of Mathematics and Computer Science, Wesleyan University, Connecticut,

**1995-Present:** Instructor, Department of Mathematics and Statistics, University of South Florida

**1988-1993:** Teaching Assistant, Department of Mathematical Sciences, Binghamton University

**1979-1987:** Assistant, Faculty of Natural and Mathematical Sciences, St Cyril and Methodius University in Skopje, Macedonia

### TEACHING EXPERIENCE

At **USF** I have taught the following courses:

#### **Undergraduate Courses**

The Early History of Mathematics, Modern Geometry, Vector Calculus, Introduction to Topology, Geometry, Bridge to Abstract Mathematics, Linear Algebra, Calculus I-III, Life Sciences and Engineering Calculus I-III, Differential Equations, College Algebra, Precalculus Algebra/Trig, Trigonometry, Finite Mathematics

## **Graduate Courses**

Topology I, Topology II, Differential Geometry, Advanced Linear Algebra, The Early History of Mathematics

## **COURSE COORDINATION**

I was the course coordinator for MAC1105 College Algebra from 2003 until 2006, and for MAC1147 Precalculus Algebra/Trigonometry and MAC1114 Trigonometry from 2006 until 2009.

From the Fall of 2009 I serve as a liaison between the Department of Mathematics and Statistics and the Department of Secondary Education in the College of Education. In this role I am involved in reshaping the mathematics courses traditionally offered to the College of Education students.

## **COURSE DEVELOPMENT**

I have been involved in the design of new graduate courses MTG5256 Differential Geometry and MTG 4214 Modern Geometry. I was also involved in reshaping the content of MTG 3212 Geometry.

In 2010 I worked on the design of a new undergraduate course, MAT4938 **Research Experience in Mathematics-Capstone Course** which, if approved, will be a required course for all graduating mathematics majors.

In 2009 I designed a new undergraduate course, **Visual Mathematics**, with the idea to promote and encourage “visual arguments” in Undergraduate mathematics courses. This course will have three versions: Visual Complex Analysis, Visual Topology, and Visual Algebra.

## **SUPERVISION AND MENTORING**

I am supervising the Teaching Assistants, and coordinating the **Teaching Seminar**, to improve the teaching proficiency of our Teaching Assistants from 1995 to the present.

I am also actively involved as an advisor in our **Math Club**, working with undergraduate students on their first steps to research.

## **PAPERS**

*Tilings of the Plane, Hyperbolic Groups and Small Cancellation Conditions*

Memoirs of the American Mathematical Society, Number 733, 2001

*Tilings and groups* PROCEEDINGS, Volume xiii, Systemics, Cybernetics, Information Technologies and Applications , Orlando FL, 2003

*Random Groups, Large Girth, and Dead Ends of Large Depth*  
(with Z. Sunic ) Work in Progress.

## **CONFERENCES AND INVITATIONS:**

102 Annual Meeting of AMS, Orlando FL, March 1995, with the presentation “Hyperbolic Groups and Tilings of the Plane”

Regional Group Theory Conference, Miami University, Oxford OH, May 1995 with “Tillings of the Plane and Hyperbolic Groups”

Wesleyan University, Middletown, Connecticut, January 2000, Invitation, with the presentation “Geometry of Group Presentations”

MAA Suncoast Meeting, Florida Southern College, Lakeland 2002 with “Hyperbolic Groups: Basic Definitions and Examples”

MAA Suncoast Meeting XXIX , St Pete College, Tarpon Springs 2004 with the presentation “ Yet, another tale of the three circles”

University of Milano-Bicocca, Milano, Italy, January 2008, Invitation, with the presentation “Hyperbolic Geometry and Tilings”

MAA Suncoast Regional Meeting XXXIV, Polk State College, Lakeland 2009, with the presentation “Cayley Graphs- an Attempt to Visualize a Group”

Science and Mathematics Teacher Imperative 2010 National Conference (with Gladis Kersaint) on “Collaborative Effort between a Mathematician and a Mathematics Teacher Educator to Enhance the Mathematics Preparation of Teachers” June 2010, Cincinnati

## **AWARDS AND GRANTS**

Recipient of the award for the best student of the year 1978 at the Faculty of Natural and Mathematical Sciences, St Cyril and Methodius in Skopje, Macedonia

### **NSF Grant DUE-1035273, \$ 1.2 million, Robert Noyce Science, Technology, Engineering and Mathematics (STEM)**

This grant was awarded to an interdisciplinary team of faculty from the College of Education (Dr Gladis Kersaint as PI, Dr Allan Feldman as co-PI) and the College Arts and Sciences (I and Dr Jeffrey Ryan from Geology department as co-PI's ), from August 1 , 2010 to July 31 , 2015

**PROMiSE** A Grant funded by the USDOE and awarded by FLDOE Mathematics and Science Partnership Initiative, in partnership with three Florida Public Universities, four large school districts, HEC, NEFEC. Grant Partner, 2009

**Project ACE** (Achievement through Content Experience) with Hillsborough County and Florida Department of Education, work on design and development of professional modules to improve Mathematics content knowledge of Elementary and Middle School Teachers. Grant Partner, 2007

**Internal CAS Travel Grant**, for workshop on Teaching Mathematics in Colleges and Universities, AMS Meeting, Gainesville Florida, 2002

## **PROFESSIONAL AND SERVICE ACTIVITIES**

Permanent Correspondent of Florida Epsilon Chapter of **Pi Mu Epsilon**

Faculty Sponsor of USF **Math Club**

Undergraduate Advisor 2000-2001

Nagle Lecture Series Committee 2004-2005

Member of two Search Committees, 1999, 2000

Member of the Undergraduate Committee

## **MEMBERSHIPS**

Pi Mu Epsilon, National Honorary Mathematics Society, 2009, American Mathematical Society, member since January 1998, MAA Past Member.

