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CARLOS ISLAS-MORENO

Personal Information:

Nationality: Mexican.

Date of birth: August 24, 1975.

Married. (Two children).

Tel. 5543932188.

E-mail: cislasmc@gmail.com

carlos.islas@uacm.edu.mx

Academic Information:

B. Sc. MATH. (2001)

▶ UNAM, México.

M. Sc. MATH. (2004)

▶ UNAM, México.

PhD. (2008)

“On 2-equivalent Continua”

▶ UNAM, México.

Academic Experience:

University of Saskatchewan (USASK)

Visiting Professor, August 2013 – August 2014.

Undergraduate Courses: Math 104.3 Math 258.3, Calculus and Geometry.

Autonomous University of Mexico City (UACM)

Professor, 2006-2013

- Undergraduate Courses: Math A, Math B, Algebra and Analytic Geometry to health and Bio-Statistics
- Graduate Courses: Advanced Algebra, Linear Algebra, Vector Calculus, Differential Equations, Mathematical Analysis, Nonlinear Dynamics I, Nonlinear Dynamics II, Research Seminars and Thesis Seminars

National University of Mexico (UNAM)

- Teacher Assistant B, 2001-2004
Analytic Geometry I and II, Advanced Algebra I and II, Linear Algebra I, Topology II and Topology Seminar A.
- Part time Professor A, 2002-2013
- Analytic Geometry I and II, Advanced Algebra I and II, Linear Algebra I, Calculus I, II, III and IV.
- Graduate Teacher Assistant, 2006-2007 General Topology.
- Professor Graduate program, 2011-2 y 2012-2, General Topology

Metropolitan Autonomous University

- Teacher Assistant A, 2000-2002
- Differential Calculus, Integral Calculus, Multivariable Calculus, Modern Algebra and Math for Bio Sciences II.

UNITEC

- Part time Professor, 2005-2006
- Advanced Algebra, Linear Algebra, Differential and Integral Calculus, Vector Calculus, Differential Equations, Numerical Method and Math for architects II.

Teaching:

	Semester	Courses
1999	February – June	Analytic Geometry UNAM Multivariable Calculus UAM Algebra UAM
	August – December	Analytic Geometry 1 UNAM Differential Calculus UAM
2000	February – June	Superior Algebra UNAM Linear Algebra UAM

	August – December	Analytic Geometry 2 UNAM
2001	February – June	Algebra I UNAM Integral Calculus UAM
	August – December	Analytic Geometry 1 UNAM Differential Multivariable Calculus UAM
2002	February – June	Analytic Geometry 2 UNAM Modern Algebra UAM
	August – December	Differential Calculus UNAM
2003	February – June	General Topology 2 UNAM
	August – December	Integral Calculus UNAM
2004	February – June	Differential Multivariable Calculus UNAM
	August – December	Integral Multivariable Calculus UNAM
2005	February – June	Topolgy Seminar (UMR)
	August – December	Integral Calculus UNAM Differential Calculus UNITEC Linear Algebra UNITEC
2006	February – June	Differential Multivariable Calculus UNAM Diferential Equations UNITEC Algebra UNITEC
	August – December	Integral Multivariable Calculus UNAM Calculus UNITEC Algebra and Trigonometry UACM
2007	February – June	Differential Calculus UNAM Algebra and Analytic Geometry UACM Algebra and Trigonometry UACM
	August – December	Integral Calculus UNAM Mathematical Analysis UACM Algebra and Trigonometry UACM
2008	February – June	Differential Multivariable Calculus UNAM Mathematical Analysis UACM Probability UACM
	August – December	Integral Multivariable Calculus UNAM Algebra and Trigonometry UACM
2009	February – June	Differential Calculus UNAM General Topology UNAM Algebra and Analytic Geometry UACM Multivariable Calculus UACM
	August – December	Integral Calculus UNAM Algebra and Trigonometry UACM Linear Algebra UACM Differential Equations UACM

2010	February – June	Differential Multivariable Calculus UNAM Differential Equations UACM Biostatistic UACM
	August – December	Integral Multivariable Calculus UNAM Nonlinear Dynamics 1 UACM
2011	February – June	Differential Calculus UNAM General Topology Nonlinear Dynamics 2 UACM
	August – December	Integral Calculus UNAM Nonlinear Dynamics 2 UACM Algebra and Trigonometry UACM
2012	February – June	Differential Multivariable Calculus UNAM Nonlinear Dynamics 1 UACM Dynamical Systems UACM
	August – December	Integral Multivariable Calculus UNAM Nonlinear Dynamics 2 UACM Algebra and Trigonometry UACM
2013	February – June	Differential Calculus UNAM Nonlinear Dynamics 1 UACM Dynamical Systems UACM
2014	January – April	Math help in the University Learning Center Library, University of Saskatchewan
2014	April – July	Math 104.3 T1 University of Saskatchewan

Experience

University of Missouri in Rolla, Missouri, U. S. A. (2005-2).

- Visiting professor with Professor W. J. Charatonik.

Institute of Mathematics, National University of Mexico

- PDF with Dr. Sergio Macías.

University of Mexico City

- In charge of the Master in Nonlinear Dynamics and Complex Systems.
- Proponent of the program “PhD in Mathematics” (Approved by the university council, UACM).

Research Projects.

- In charge of the Project PI-ICYTDF2010-0047
“Límites Inversos aplicados a la Economía”
Instituto de Ciencia y Tecnología del Distrito Federal (ICyTDF)
Dec 2009 – Nov 2011.
\$ 185,000 mex pesos.
- In charge of the Project PI-ICYTDF2012-0055
“Límites Inversos aplicados a modelos económicos”
Instituto de Ciencia y Tecnología del Distrito Federal
Jan 2012 - Dec 2012.
\$ 135,000 mex pesos
- In charge of the Project UACM/OAG/ADI/016/2012
“Teoría de Continuos y sus Hiperespacios”
Concejo Nacional de Ciencia y Tecnología (CONACyT) y Universidad
Autónoma de la Ciudad de México (UACM)
Oct 2012 a Dic 2013,
\$ 89,000 mex pesos.

Academic Supports.

- Fellow M. Sc. Math. DGEP - UNAM
2001 - 2003.
- Fellow Ph. D. Math. CONACyT
2004 - 2007.
- Fellow Research visit University of Missouri in Rolla, Missouri, United
States. DEGEP, UNAM.
- Operation grant CONACyT 2007.
- Fellow (PDF) UACM - ICyT 2008 - 2009.
- Member of “Sistema Nacional de Investigadores” CONACyT, Jan 2010 –.

Thesis supervised.

- Luis Alberto Quezada Téllez, M. Sc.
“Dinámica Regresiva en la Agricultura”, Maestría en Dinámica no Lineal y Sistemas Complejos de la Universidad Autónoma de la Ciudad de México.
Thesis accepted Aug 2012
- Leticia Montoya,
“Límites inversos generalizados y caos”, Maestría en Dinámica no Lineal y Sistemas Complejos. In progress.
- Fermín Anguiano,
“Dinámica del transporte en la Ciudad de México”, Maestría en Ciencias de la Complejidad. In progress.

Academic activities.

- “Responsable de Servicio Social” of the student Álvaro Reyes
Facultad de Ciencias de la UNAM Feb 3 – Jul 31 2009.
- Reviewer undergraduate Thesis. 5 students
Matemáticas de la Facultad de Ciencias de la UNAM.
- In charge of “seminario semanal en la UACM Topología General”
2007 - 2012
- In charge of “seminario semanal UACM-Facultad de Ciencias, UNAM
Teoría de Continuos”.
2009 – 2010.
- Reviewer of Zentralblatt der Mathematik.
- Referee of the Journal “Integración”.

Academic and administrative activities.

- Member of the “Primer Consejo Universitario de la UACM” Nov 2007 – Aug 2010.
- Member of the “Comité de Servicio Social de la UACM” Sep 2009 – Aug 2010.

Conferences

- Conf. “Knaster Continua in generalized inverse limits”, Spring Topology and Dynamical Systems Conference, Richmond, Virginia, USA. March 2014.
- Conf. “Compactifications of rays and the property of Kelley in generalized inverse limits”, Workshop in the STDC 2014, Richmond VA. USA. March 17, 2014.
- Invited Conf. “A Theorem on inverse limits”, Spring Topology and Dynamical Systems Conference, GR. North Caroline, USA. March 2006.
- Invited Conf. “Límites inversos aplicados a la economía I”, in the “VI jornadas de Topología”, BUAP, Puebla, México. Sep 2010.
- Conf. And workshop in “Talleres estudiantiles de Teoría de los Continuos e Hiperespacios”, Nov 2006, 2007, 2008, 2009, 2010, 2011, 2012 and 2013.
- Workshop in “Talleres de Investigación en Teoría de Continuos e Hiperespacios” Julio de 2007, 2010, 2011, 2012 and 2013.
- Inv. Conf. “Dinámica de Tarifas” in the “La Asociación Mexicana de Transporte y Movilidad”, Ciudad de México, May 2011.
- Inv. Conf., “Z-sets on continua” Spring Topology and Dynamical Systems Conference, University of Texas, Tyler, USA. March 2011.
- Inv, Semi-plenary Conf. “Límites inversos y sus aplicaciones” Symposium de jóvenes investigadores, Facultad de Ciencias, UAEMex. Nov. 2010.
- Inv. Conf., “On 2-equivalent continua”, Sectional Meeting of the AMS, Baylor University, Texas, USA. Oct. 2010.

- Inv. Conf. “Una familia no numerable de abanicos incomparables”, Simposium de jóvenes investigadores, Facultad de Ciencias de la UAEMex. Nov. 2010.
- “Epsilon Property on continua”, Spring Topology and Dynamical Conference, Universidad de Missouri en Rolla, Rolla Missouri, USA. March 2007.
- Inv. Conf. “Irreducibility on 2-equivalent continua”, VI congreso Iberoamericano de Topología y sus aplicaciones, BUAP, Puebla. Jul 2005.
- Inv. Conf. “Ejemplos de continuos 2-equivalentes”, III Joint Meeting Japan-México in Topology and its Applications, Oaxaca, México, Dec. 2004.
- Conf and participation in the organization of the “Congresos nacionales de la Sociedad Matemática Mexicana”, octubre 1999, 2000, 2001, 2002, 2003, 2004 y 2005.

Papers in refereed Journals

- C. Islas, An uncountable collection of mutually incomparable planar fans, Topology Proceedings 31, No. 1, (2007), 151-161.
- Reporte Técnico: Límites Inversos Aplicados a la Economía, UACM-ICyTDF Agosto de 2011. Reporte de proyecto ICyTDF PI-2010-0047.
- C. Islas, A 2-equivalent Kelley Continuum, Glasnik Matematicki, V. 46, No. 66 (2011), 249-268.
- Antonio Neme, Sergio Hernández, Antonio Nido, and Carlos Islas, Multilayer Perceptrons as Classifiers Guided by Mutual Information and Trained with Genetic Algorithms. [Lecture Notes in Computer Science](#), 2012, Volume 7435, [Intelligent Data Engineering and Automated Learning - IDEAL 2012](#), pp. 176-183.
- C. Islas y A. Quezada, Dinámica regresiva en la agricultura, Análisis Económico, 67, primer cuatrimestre 2013 Vol. XXVIII ISSN 0185-3937. (<http://www.analisiseconomico.com.mx/numeros.html>)

- E. Castañeda, C. Islas “Being semi-Kelley does not imply semi-smoothness” Questions and Answers in General Topology 32 (2014), pp. 73–77.
- C. Islas and D. Jardón, “Vietoris topology on spaces dominated by second countable ones” Open Mathematics Vol. 13, Issue 1 2015.
- D. Daniel, C. Islas, R. Leonel and E. Tymchatyn. “Non-separating subcontinua of planar continua” (to appear in Colloquium Mathematicum).
- C. Islas and R. Leonel, “Knaster continua in Generalized Inverse Limits” (to appear in Q&A in Gen. Topology)
- C. Islas, D. Jardón “An uncountable collection of 2-equivalent continua” (sent).
- C. Islas and I. Puga, “Compactifications on generalized inverse limits” (sent).