CURRICULUM VITÆ

Name Frédéric (Fred) Mynard, Ph.D.

Languages French (native), English (fluent), Spanish (fluent)

Mailing address New Jersey City University, Kartnoutsos

Room 623, 2039 John F. Kennedy Boulevard, Jersey City, New Jersey 07305

e-mail <u>fmynard@njcu.edu</u>

France.

area of expertise Mathematics (General Topology, Categorical Topology)

web pages https://sites.google.com/site/fredmynardswebpage/

EDUCATION

Ph. D. (Mathematics) Coreflectively modified continuous duality as a method of characterization of topological properties of product spaces, (supervisor Professor S. Dolecki, Burgundy University, France) obtained with the felicitations of the jury, June 1999.

CAPES of mathematics.
(French competitive certification examination for high school teachers)

Bachelor and Masters of pure mathematics, Burgundy University (Dijon, France).

Mathématiques Supérieures and Mathématiques Spéciales at Carnot Lycée, Dijon,

TEACHING POSITIONS

2020-present	Tenured Full Professor, New Jersey City University (NJCU)
2017-2020	Full Professor (tenure-track), NJCU
2014-2017	Associate Professor (tenure-track), NJCU
2014	Promoted to Full Professor (tenured), Georgia Southern University (GSU)
2009-2014	Associate Professor (tenured), GSU
2004-2009	Assistant Professor (tenure-track), GSU
2001-2004	Visiting Assistant Professor at the University of Mississippi
2001	Lecturer at the University of Auckland, New Zealand
1999-2000	Teacher of mathematics and physics for candidates for the promotion to the grade of officer during a one-year compulsory military service as a scientific fellow (assimilated to the officer corps).
1998-1999	Teacher of mathematics in Ronsard College (intermediate high school)

ADMINISTRATIVE POSITIONS

July 24- Associate Dean (Interim) for STEM and Psychology, College of Arts and Sciences, present NJCU

- responsibility for the coordination and supervision of all STEM programs and the Psychology program, including but not limited to, assisting Chairs whenever needed, coordination of program assessment, review of schedules, review of budget requests, review of reappointment and promotion applications, review of sabbatical applications
- produced a new Chairs Handbook for the college
- produced a document on improving various university processes
- contributed to a space utilization survey
- oversaw and assisted the move of the psychology department between buildings
- participated in the evaluation of new faculty line requests and in the production of the paperwork for approved lines
- comprehensive review of the Spring 25 and AY 25-26 schedules for needs across patterns and modalities
- comprehensive review of budgets across the college
- represented the college at STEM events
- filled in for the Dean of the college in meetings as needed
- supervision of the college's office secretarial staff

Spring 24 CAS STEM coordinator (acting as Associate Dean for STEM concurrently with Math Chair duties), NJCU

- comprehensive review of budget requests for AY 24-25
- met with all STEM and Psychology department chairs individually and inventoried needs and challenges systematically

Summer 21- Math Department Chair, NJCU

Spring 24

- responsibility for scheduling, advisement of all majors and minors, conflict management and resolution, planning, representation, reporting, and advocacy for the department
- facilitated new dual enrollment programs with local high schools (North Bergen HS, Union City HS, Union Catholic HS)
- put in place a system of course coordinators and common exams for all multisection courses
- expansion of the emporium (winter and summer) bridge programs
- advocated for and obtained a faculty lecturer line to support the bridge programs
- advocated for and obtained a faculty lecturer line, as a dual-appointment with College of Education to supervise student teachers
- oversaw the final steps in the elimination of remedial courses
- reviewed transfer maps for new agreements with local community colleges (Hudson, Essex)
- oversaw successful teach outs for the sunset mathematics master program when NJCU eliminated 48 undergraduate and 28 graduate programs
- led the department program review Fall 21-Spring 22

PUBLICATIONS

Published or accepted for publication in international peer-reviewed journals

- 1. E. Angulo-Perkins and F. Mynard, *Subobjects and compactness in pointfree convergence*, Journal of Mathematics, https://doi.org/10.1155/2023/7510966, 2023
- 2. *F. Mynard, Concrete functors that respect initiality and finality,* Applied General Topology, vol 24(1), pp.187-203, 2023
- 3. F. Mynard, *Approach Theory and pointfree convergence*, Topology Proceedings 61, pp. 31-47, 2023
- 4. F. Mynard and J. Wojciechowski, *When is a category of adherence-determined convergences simple?* Topology and its Applications vol 322, 2022
- 5. F. Mynard, *On points of convergence lattices and sobriety for convergence spaces*, Topology and its Applications, vol 319, 21 pages, 2022
- 6. F. Mynard, *Order convergence and convergence in the interval topology in the presence of compactoidness*, Cahiers de Topologie et Géométrie Différentielle Catégoriques, vol. LXII (4), 491-496, 2021
- 7. F. Mynard, Comparison of countability conditions within three fundamental classifications of convergences, Topology and its Applications, vol. 278, 38 pages, 2020
- 8. J. Goubault-Larrecq and F. Mynard, *Convergence without points*, Houston Journal of Mathematics, 46(1):227-282, 2020
- 9. F. Mynard, (*Ultra-*) Completeness numbers and (pseudo-) paving numbers, Topology and its applications 256: 86-103, 2019.
- 10. F. Chigr and F. Mynard, *The convergence-theoretic approach to weakly first countable spaces and symmetrizable spaces*, Mathematica Slovaca 69 (1):185-198, 2019.
- 11. F. Mynard, *Distinguishing the plane from the punctured plane without homotopy*, Mathematics Magazine 91(1): 16-19, 2018.
- 12. S. Dolecki and F. Mynard, *Productively sequential spaces*, Mathematica Slovaca, 68(3):667-676, 2018.
- 13. F. Mynard and M. Tkachenko, *Remarks on metrizability of dual groups*, Topology Proceedings, 47: 273-278, 2016.
- 14. F. Mynard and W. Trott, *Measure of compactness for filters in product spaces: Kuratowski-Mròwka in CAP revisited*, Topology and its Applications, 200: 251-267, 2016.
- 15. D. Hofmann, F. Mynard and G. Seal, *Exponential Kleisli monoids as Eilenberg-Moore algebras*, Applied Categorical Structures, 23(2):137-157, 2015
- 16. S. Dolecki and F. Mynard, *A unified theory of function spaces and hyperspaces: local properties,* Houston Journal of Math. 40(1), 285-318, 2014.
- 17. E. Colebunders, F. Mynard, and W. Trott (Master Student), *Function spaces and contractive extensions in Approach Theory: The role of regularity*, Applied Categorical Structures, 22(3): 551-563, 2014
- 18. F. Mynard, *A convergence-theoretic viewpoint on the Arzelà-Ascoli Theorem,* Real Analysis Exchange, 38(2): 431-444, 2013
- 19. F. Jordan and F. Mynard, *Core compactness and diagonality in spaces of open sets*, Applied General Topology, 12(2): 143-162, 2011
- 20. S. Dolecki, F. Jordan and F. Mynard, *Group topologies coarser than the Isbell topology,* Topology and its Applications 158(15): 1962-1968, 2011
- 21. R. Kopperman, F. Mynard and P. Ruse *quasi-metric representations of various categories of closure spaces*, Topology Proceedings, 37: 331-347, 2011
- 22. S. Dolecki and F. Mynard, *When is the Isbell topology a group topology?* Topology and its Applications 157(8):1370-1378, 2010.

- 23. F. Mynard and G. Seal, *Phenotype Spaces*, Journal of Mathematical Biology, Vol. 60 No 2: 247-266, 2010
- 24. F. Mynard, *Measure of compactness for filters in the approach setting*, Quaestiones Mathematicae 31, 189–201, 2008
- 25. S. Dolecki, F. Jordan and F. Mynard, *Reflective classes of sequentially based convergences, sequential continuity and sequence-rich filters.* Topology Proceedings 31 No. 2, pp. 457-479, 2007
- 26. F. Mynard, *Products of compact filters and applications to classical product theorems*, Topology and its Applications, 154(4): p. 953-968, 2007
- 27. F. Mynard, *Unified characterization of exponential objects in TOP, PRTOP and PARATOP*, Cahiers de Topologie et Géométrie Différentielle Catégoriques, Volume 48, No. 1, pp. 70-80, 2007
- 28. A. Tran Mynard and F. Mynard, *Closure spaces and characterization of filters in terms of their Stone images*, Czechoslovak Mathematical Journal, Vol. 57, No. 3, pp. 1025-1034, 2007
- 29. F. Jordan, I. Labuda and F. Mynard, *Finite products of filters that are compact relative to a class of filters*, Applied General Topology, 8(2):161-170, 2007
- 30. F. Mynard, Relations that preserve compact filters, Applied General Topology, 8(2):171-185, 2007
- 31. F. Jordan and F. Mynard, *Compatible relations on filters and stability of local topological properties under supremum and product,* Topology and its Applications 153: 2386-2412, 2006
- 32. D. Gauld and F. Mynard, *Differentiability as continuity*, Real Analysis Exchange 31(2):425-430, 2005/2006
- 33. D. Gauld and F. Mynard, *Metrisability of manifolds in terms of function spaces*, Houston Journal of Mathematics, Volume 31, No. 1, pp. 199-214, 2005
- 34. F. Jordan and F. Mynard, *Productively Fréchet spaces*, Czechoslovak Mathematical Journal, Vol. 54, No. 4, pp. 981-990, 2004
- 35. S. Dolecki and F. Mynard, *Hyperconvergences*, Applied General Topology, Volume 4 No. 2: 391-419, 2003
- 36. F. Jordan and F. Mynard, *Espaces productivement de Fréchet*, Comptes Rendus de l'Académie des Sciences Paris, Ser I 335, 259-262, 2002
- 37. F. Mynard, *Coreflectively modified duality,* Rocky Mountain Mathematical Journal, Volume 34 No. 2 (Summer): 733-758, 2004
- 38. F. Mynard, *First-countability, sequentiality and tightness of the upper Kuratowski convergence*, Rocky Mountain Mathematical Journal, Volume 33 No. 3 (Fall): 1011-1038, 2003
- 39. F. Mynard, *When are compact, countably compact and Lindelöf convergences topological?* Topology Proceedings, 26 No. 1, pp. 283-296, 2002
- 40. F. Mynard, *More on strongly sequential spaces*, Commentationes Mathematicae Universitatis Carolinae 43,3: 525-530, 2002
- 41. F. Mynard, *Coreflectively modified continuous duality applied to classical product theorems*, Applied General Topology, Volume 2, No. 2, pp. 119-154, 2001
- 42. S. Dolecki and F. Mynard, *Convergence-theoretic mechanisms behind product theorems*, Topology and its Applications, 104: 67-99, 2000
- 43. S. Dolecki and F. Mynard, Cascades and multifilters, Topology and its Applications, 104: 53-65, 2000
- 44. F. Mynard, *Strongly sequential spaces*, Commentationes Mathematicae Universitatis Carolinae, 41, 1: 143-153, 2000

Invited book chapter

- 45. D. Georgiou, S. Illiadis and F. Mynard, *Function space topologies*, <u>Open Problems in Topology II</u>, Elliot Pearl (editor), Elsevier 2007
- 46. F. Mynard, *Espacios de convergencia. Parte I: ¿Por qué?*, <u>Topología y sus Aplicaciones (8)</u>, Juan Angoa (editor), Benemérita Universidad Autónoma de Puebla, México, 2021

Under consideration for publication

- F. Mynard, On (pre-) approach spaces within convergence approach spaces (21 pages)
- F. Mynard and B. Castro Herrejón, *On connected subsets of a convergence space* (13 pages)

Books (editor)

• F. Mynard and E. Pearl, *Beyond Topology*, Contemporary Mathematics #486, AMS, 2009.

Books (author)

- F. Mynard, *Introduction to the language of mathematics* (textbook), p. 185, 1st edition, Springer, November 2018
- S. Dolecki and F. Mynard, *Convergence Foundations of Topology*, p. 568, 1st edition, World Scientific Publishers, 2016.
- F. Mynard, *A youtube Calculus Workbook* (part I), p. 299, 1st edition, Bookboon.com, 2013.
- F. Mynard, *A youtube Calculus Workbook* (part II), p.268, 1st edition, Bookboon.com, 2014.
- F. Mynard, *Exercises for A youtube Calculus Workbook (part II): a flipped classroom model*, p.238, 1st edition, Bookboon.com, 2014.

FUNDED GRANTS

Fall 2019 NICU-SBR release time Compacteriors of pretopologies involving time Countability conditions Countability conditions Countability conditions Countability conditions Completeness numbers and paving numbers of the time Compacteriors and paving numbers of the time Compacteriors and paving numbers of the dual Countability Compacteriors and paving numbers of the time Compacteriors and paving numbers of the dual Countability Countabil	Period	Funding agency	role	title	amount
Fall 2018 NICU-SBR release time Fall 2016 NICU-SBR release time Fall 2015 NICU-SBR release time Fall 2016 NICU-SBR release time Fall 2015 NICU-SBR release time Fall 2015 NICU-SBR release time Fall 2015 NICU-SBR release time P1 Measure of compactness, Ascoli-type theorems, and exponential objects in CAP Spring Account of the exponential objects in CAP Summer GSU Faculty Development Grant Spring GSU Service Grant 2014 Spring GSU Faculty Development Grant Spring GSU Faculty Development Grant Spring GSU Service Grant 2010 NSF (DMS-132350) Co-PI Systing Topology and Dynamical Systems Sumble Applications 2014 Spring GSU Faculty Development Grant Spring GSU Service Grant 2010 NSF (DMS-0948727) Co-PI Systing Topology Special Session Spring GSU Service Grant 2010 NSF (DMS-0948727) Co-PI Systing Topology and Dynamical Systems Conference Support Systing Conference on Topology and Dynamics Spring GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics Spring GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics Spring GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics Spring GSU Service Grant PI 2010 Spring Conference on Topology and its Applications Spring GSU Foundation grant PI 2010 Spring Conference on Topology and its Applications Spring GSU CLEC Lecture Support Spring GSU CLEC Lecture Support Spring CSU CLEC Lecture Support Spring GSU CLEC Lecture Spring GSU CLEC Lecture Spring GSU	Fall 2019	NJCU-SBR release	PI	On generalizations of pretopologies involving	3 credits
Fall 2017 NJCU-SBR release time Mual Convergence theoretic approach to generalized 3 credits					
Fall 2017 NJCU-SBR release time P1 Convergence theoretic approach to generalized time Scredits	Fall 2018		PI		3 credits
time metrizabilty Elements of pointfree convergence 3 credits					
Fall 2016 NJCU-SBR release time Fall 2015 NJCU-sBR release time P1 Measure of compactness, Ascoli-type theorems, and exponential objects in CAP Spring GSU Faculty Development Grant Spring GSU Service Grant P1 IIth Topological Symposium, Prague Spring GSU Service Grant P1 2010 Spring Topology and Dynamical Systems Conference Spring GSU Service Grant P1 2010 Spring Conference on Topology and Dynamics Spring GSU Service Grant P1 2010 Spring Conference on Topology and its Applications Spring GSU GSU Service Grant P1 21 Summer Conference on Topology and its Applications Spring GSU GSU Service Grant P1 21 Summer Conference on Topology and its Applications Spring GSU CLEC Lecture Support Fall 2006 GSU Service Grant Fall 2007 GSU CLEC Lecture Support Support Fall 2008 GSU CLEC Lecture Support Support Fall 2006 GSU CLEC Lecture Support Support Fall 2007 Fall 2006 GSU CLEC Lecture Support Support Support Fall 2006 GSU CLEC Lecture Support Support Support Fall 2006 GS	Fall 2017		PI		3 credits
Fall 2015 NJCU-SBR release time PI Measure of compactness, Ascoli-type theorems, and exponential objects in CAP Fall 2015 NJCU-mini grant PI \$535 2017-2018 NSF (DMS-1724830) PI \$1"Spring Topology and Dynamical Systems Conference Con	E 11 2016		DI	,	2 1:4
Fall 2015 NJCU-SBR release time PI Measure of compactness, Ascoli-type theorems, and exponential objects in CAP 3 credits Fall 2015 NJCU-mini grant PI \$535 2017-2018 NSF (DMS-1724830) PI \$1st Spring Topology and Dynamical Systems \$40,350 2016-2022 NSF (1557358) co-PI Noyce Scholarship Project (Track I, Phase I) \$1,449,485 Summer GSU Faculty Development Grant PI Summer Conference on Topology and its Applications 2014 \$1,122 Spring 2014 GSU Service Grant PI AMS-MAA Joint Meeting, Baltimore, MD, Categorical Topology Special Session \$1,811 Spring 2014 Ose F (DMS-1132350) co-PI 31st Southeastern Atlantic Regional Conference on Differential Equations \$1,536 Spring 2010 NSF (DMS-0948727) co-PI Spring Topology and Dynamical Systems Conference \$49,453 2010 NSF (DMS-0948727) co-PI Spring Topology and Dynamical Systems Conference \$49,453 2010 GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics \$992 Spring 2009 GSU Foundation grant PI 22nd Summer Conference on Top	Fall 2016		PI	Elements of pointfree convergence	3 credits
time exponential objects in CAP Fall 2015 NJCU-mini grant PI \$51st Spring Topology and Dynamical Systems Conference \$40,350	Eall 2015		DI	Magning of compactness Assolitions theorems and	2 anadita
Sammer PI Summer Conference on Topology and Dynamics Size Spring Sufferential Equations Sufference Sufference Sufference Sufference Sufference Sufference Sufference Summer Conference Sufference Su	Fall 2013		PI		3 credits
NSF (DMS-1724830) PI SI's Spring Topology and Dynamical Systems S40,350		tillic		exponential objects in CAI	
Conference Con	Fall 2015	NJCU-mini grant	PI		\$535
Conference Con	2017-2018	NSF (DMS-1724830)	ΡΙ	51st Spring Topology and Dynamical Systems	\$40.350
Summer GSU Faculty Development Grant PI Summer Conference on Topology and its Applications 2014 Spring 2014 Spring 2014 GSU Service Grant PI AMS-MAA Joint Meeting, Baltimore, MD, Categorical Topology Special Session S1,811	2017 2010	(5)			ψ.0,550
Summer GSU Faculty Development Grant PI Summer Conference on Topology and its Applications 2014 Spring GSU Service Grant PI AMS-MAA Joint Meeting, Baltimore, MD, Categorical Topology Special Session 2011-2013 NSF (DMS-1132350) co-PI 31st Southeastern Atlantic Regional Conference on Differential Equations Spring GSU Faculty Development Grant PI 11th Topological Symposium, Prague \$1,536 Spring GSU Foundation grant PI 2010 Spring Topology and Dynamical Systems Conference 2010 Spring GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics \$992 Spring GSU Foundation grant PI 2010 Spring Conference on Topology and its Applications Spring GSU Service Grant PI 22nd Summer Conference on Topology and its Applications 2006 GSU Service Grant PI 21st Summer Conference on Topology and its Applications 2006 GSU Foundation grant Fall 2008 GSU CLEC Lecture support Spring GSU CLEC Lecture support Support Series in mathematics Spring GSU CLEC Lecture Spring GSU CLEC Lectur	2016-2022	NSF (1557358)	co-PI	V	\$1,449,485
Spring 2014 Development Grant PI AMS-MAA Joint Meeting, Baltimore, MD, Categorical Topology Special Session \$1,811		, , ,			
Spring 2014 Service Grant PI AMS-MAA Joint Meeting, Baltimore, MD, Categorical Topology Special Session S1,811 2011-2013 NSF (DMS-1132350) co-PI 31st Southeastern Atlantic Regional Conference on Differential Equations S1,536 Spring GSU Faculty Development Grant PI 11th Topological Symposium, Prague S1,536 2010 NSF (DMS-0948727) co-PI Spring Topology and Dynamical Systems Conference 2010 Spring Conference on Topology and Dynamics S992 Spring GSU Foundation grant 2009 GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics S992 Spring GSU Foundation grant 2009 GSU Service Grant PI 22nd Summer Conference on Topology and its Applications Applications S1,000 2006-2007 NSF (DMS-0603294) PI 21st Summer Conference on Topology and its Applications Applications S1,000 Applications S1,000 GSU CLEC Lecture support Series in mathematics S1,180 Series in mathematics S1			PI		\$1,122
Categorical Topology Special Session 2011-2013 NSF (DMS-1132350) Co-PI 31st Southeastern Atlantic Regional Conference on Differential Equations \$19,600	2014	Development Grant		Applications 2014	
2011-2013 NSF (DMS-1132350) co-PI 31st Southeastern Atlantic Regional Conference on Differential Equations Spring GSU Faculty Development Grant 2010 NSF (DMS-0948727) co-PI Spring Topology and Dynamical Systems Conference 2010 Southeastern Atlantic Regional Conference on Topology and Dynamical Systems Conference 2010 Spring Topology and Dynamical Systems Conference 2010 Spring Conference on Topology and Dynamics Sp92 Spring GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics Sp92 Spring GSU Service Grant PI 22nd Summer Conference on Topology and its Applications 2006 GSU Service Grant PI 21st Summer Conference on Topology and its Applications 2006 GU Faculty Research grant PI Applications of generalized topology sprint Series in mathematics Spring GSU CLEC Lecture support Series in mathematics Spring GSU CLEC Lecture Spring GSU CLEC Lecture support Series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture Spring GSU CLEC Le	Spring	GSU Service Grant	PI	AMS-MAA Joint Meeting, Baltimore, MD,	\$1,811
Spring GSU Faculty Development Grant 2010 NSF (DMS-0948727) Co-PI Spring Topology and Dynamical Systems Conference S49,453 2010 Spring GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics S992 Spring GSU Foundation grant PI 2010 Spring Conference on Topology and Dynamics S420 Spring Conference on Topology and Dynamics Spring Conference on					
Spring 2010 Development Grant 2010 Development Grant 2010 NSF (DMS-0948727) co-PI Spring Topology and Dynamical Systems Conference 2010 Spring Topology and Dynamical Systems Conference 2010 Spring Topology and Dynamical Systems Conference 2010 Spring Conference on Topology and Dynamics Sp92 Spring 2009 GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics Sp92 Spring 2009 GSU Service Grant PI 22nd Summer Conference on Topology and its Applications Applications Spring 2006-2007 NSF (DMS-0603294) PI 21st Summer Conference on Topology and its Applications Applications of generalized topology S10,000 GU Faculty Research 2006 GSU CLEC Lecture 2007 Support Series in mathematics Spring 2007 GSU CLEC Lecture 2007 Support Support Support Support Series in mathematics Spring GSU CLEC Lecture 2007 Support Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2006 Support Series in mathematics Spring GSU CLEC Lecture 2007 Support Series in mathematics Spring GSU CLEC Lecture 2007 Support Series in mathematics Spring GSU CLEC Lecture 2007 Support Series in mathematics Spring GSU CLEC Lecture 2007 Support Series in mathematics Spring GSU CLEC Lecture 2007 Support Support Series in mathematics Spring GSU CLEC Lecture 2007 Support	2011 2012	NCE (DMC 1122250)	aa DI		\$10,600
Spring GSU Faculty Development Grant 2010 NSF (DMS-0948727) co-PI Spring Topology and Dynamical Systems Conference 2010 Fall 2009 GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics \$992 Spring GSU Foundation grant 2009 GSU Service Grant PI 22nd Summer Conference on Topology and its Applications 4pplications Spring CGU Faculty Research grant PI 21st Summer Conference on Topology and its Applications 4pplications 4pplications 4pplications 4pplications 4pplications 4pplications 6generalized topology 510,000 grant 511,000 grant 75,000 grant	2011-2013	NSF (DMS-1132350)	co-PI		\$19,600
Development Grant 2010 NSF (DMS-0948727) Co-PI Spring Topology and Dynamical Systems Conference \$49,453				Differential Equations	
Spring GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics \$992	Spring	GSU Faculty	PI	11th Topological Symposium, Prague	\$1,536
Fall 2009 GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics \$992 Spring 2009 GSU Foundation grant PI 22nd Summer Conference on Topology and its Applications \$1,000 Fall 2006 GSU Service Grant PI 22nd Summer Conference on Topology and its Applications \$1,000 2006-2007 NSF (DMS- 0603294) PI 21st Summer Conference on Topology and its Applications \$25,000 2006 GU Faculty Research grant PI Applications of generalized topology \$10,000 Fall 2008 GSU CLEC Lecture support Series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Fall 2006 GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics	2010				
Fall 2009 GSU Service Grant PI 2010 Spring Conference on Topology and Dynamics \$992 Spring 2009 GSU Foundation grant PI \$420 Fall 2006 GSU Service Grant PI 22nd Summer Conference on Topology and its Applications Applications	2010	NSF (DMS-0948727)	co-PI		\$49,453
Spring 2009 Fall 2006 GSU Service Grant PI 22nd Summer Conference on Topology and its Applications 2006-2007 NSF (DMS- 0603294) PI 21st Summer Conference on Topology and its Applications 2006 GU Faculty Research grant Fall 2008 GSU CLEC Lecture support Spring GSU CLEC Lecture support Fall 2006 GSU CLEC Lecture support Fall 2006 GSU CLEC Lecture Fall 2006 Fal	Eall 2000	CCII Comico Cuant	DI		\$002
Fall 2006 GSU Service Grant PI 22nd Summer Conference on Topology and its Applications 2006-2007 NSF (DMS- 0603294) PI 21st Summer Conference on Topology and its Applications 2006 GU Faculty Research grant PI Applications of generalized topology \$10,000 Fall 2008 GSU CLEC Lecture support Series in mathematics Spring GSU CLEC Lecture support Series in mathematics Fall 2006 GSU CLEC Lecture Series in mathematics Fall 2006 GSU CLEC Lecture Series in mathematics Fall 2006 GSU CLEC Lecture Series in mathematics Spring GSU CLEC Lecture Series in mathematics Fall 2006 Series in mathematics Spring GSU CLEC Lecture Series in mathematics Spring GSU CLEC Lecture Series in mathematics	Faii 2009	USO Service Grant	rı	2010 Spring Conference on Topology and Dynamics	\$992
Fall 2006 GSU Service Grant PI 22nd Summer Conference on Topology and its Applications 2006-2007 NSF (DMS- 0603294) PI 21st Summer Conference on Topology and its Applications 2006 GU Faculty Research grant PI Applications of generalized topology \$10,000 Fall 2008 GSU CLEC Lecture support Series in mathematics Spring GSU CLEC Lecture support Series in mathematics Fall 2006 GSU CLEC Lecture Series in mathematics Fall 2006 GSU CLEC Lecture Series in mathematics Fall 2006 GSU CLEC Lecture Series in mathematics Spring GSU CLEC Lecture Series in mathematics Fall 2006 Series in mathematics Spring GSU CLEC Lecture Series in mathematics Spring GSU CLEC Lecture Series in mathematics	Spring	GSU Foundation grant	PI		\$420
Applications 2006-2007 NSF (DMS- 0603294) PI 21 st Summer Conference on Topology and its Applications 2006 GU Faculty Research grant PI Applications of generalized topology \$10,000 Fall 2008 GSU CLEC Lecture support Spring GSU CLEC Lecture support PI funding for external speaker for a public lecture series in mathematics Fall 2006 GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Fall 2006 GSU CLEC Lecture PI funding for external speaker for a public lecture support series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics					
2006-2007 NSF (DMS- 0603294) PI 21st Summer Conference on Topology and its Applications 2006 GU Faculty Research grant PI Applications of generalized topology s10,000 Fall 2008 GSU CLEC Lecture support Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Fall 2006 GSU CLEC Lecture PI funding for external speaker for a public lecture support series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics	Fall 2006	GSU Service Grant	PI	22nd Summer Conference on Topology and its	\$1,000
Applications GU Faculty Research grant Fall 2008 GSU CLEC Lecture support Spring GSU CLEC Lecture apport Fall 2006 GSU CLEC Lecture support Spring GSU CLEC Lecture support Spring GSU CLEC Lecture apport Fall 2006 GSU CLEC Lecture support Fall 2006 GSU CLEC Lecture apport Fall 2006 GSU CLEC Lecture support Fall 2006 GSU CLEC Lecture apport Spring GSU CLEC Lecture support Spring GSU CLEC Lecture apport Finnding for external speaker for a public lecture apport Spring GSU CLEC Lecture apport Finnding for external speaker for a public lecture appoint Spring GSU CLEC Lecture appoint Finnding for external speaker for a public lecture appoint Spring GSU CLEC Lecture appoint Spring GSU CLEC Lecture appoint Finnding for external speaker for a public lecture appoint Spring GSU CLEC Lecture appoint Finnding for external speaker for a public lecture appoint Spring GSU CLEC Lecture appoint Finnding for external speaker for a public lecture appoint Spring GSU CLEC Lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint Finnding for external speaker for a public lecture appoint appoi				11	
2006 GU Faculty Research grant PI Applications of generalized topology grant \$10,000	2006-2007	NSF (DMS- 0603294)	PI		\$25,000
Fall 2008 GSU CLEC Lecture support series in mathematics Spring GSU CLEC Lecture support series in mathematics Fall 2006 GSU CLEC Lecture support series in mathematics Fall 2006 GSU CLEC Lecture support series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics					
Fall 2008 GSU CLEC Lecture support series in mathematics Spring GSU CLEC Lecture support series in mathematics Fall 2006 GSU CLEC Lecture support series in mathematics Fall 2006 GSU CLEC Lecture support series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics	2006	_	PI	Applications of generalized topology	\$10,000
supportseries in mathematicsSpring 2007GSU CLEC Lecture supportPI series in mathematics\$1,180Fall 2006GSU CLEC Lecture supportPIfunding for external speaker for a public lecture series in mathematics\$980Spring 2006GSU CLEC Lecture supportPIfunding for external speaker for a public lecture series in mathematics\$980Spring 2006GSU CLEC Lecture supportPIfunding for external speaker for a public lecture series in mathematics\$980SpringGSU CLEC LecturePIfunding for external speaker for a public lecture\$980	F 11 2000		DI		Φ0.40
Spring 2007GSU CLEC Lecture supportPIfunding for external speaker for a public lecture series in mathematics\$1,180Fall 2006GSU CLEC Lecture supportPIfunding for external speaker for a public lecture series in mathematics\$980Spring 2006GSU CLEC Lecture supportPIfunding for external speaker for a public lecture series in mathematics\$980SpringGSU CLEC LecturePIfunding for external speaker for a public lecture\$980SpringGSU CLEC LecturePIfunding for external speaker for a public lecture\$980	Fall 2008		PI		\$942
2007 support series in mathematics Fall 2006 GSU CLEC Lecture support PI funding for external speaker for a public lecture series in mathematics \$980 Spring GSU CLEC Lecture support PI funding for external speaker for a public lecture series in mathematics \$980 Spring GSU CLEC Lecture PI funding for external speaker for a public lecture \$980 Spring GSU CLEC Lecture PI funding for external speaker for a public lecture \$980	Carina	1	DI		¢1 100
Fall 2006 GSU CLEC Lecture support series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture \$980			PI		\$1,180
supportseries in mathematicsSpringGSU CLEC LecturePIfunding for external speaker for a public lecture\$9802006supportseries in mathematicsSpringGSU CLEC LecturePIfunding for external speaker for a public lecture\$980		**	ÞΙ		\$980
Spring 2006GSU CLEC Lecture supportPIfunding for external speaker for a public lecture series in mathematics\$980SpringGSU CLEC LecturePIfunding for external speaker for a public lecture\$980	1 all 2000		1 1		ψ900
2006 support series in mathematics Spring GSU CLEC Lecture PI funding for external speaker for a public lecture \$980	Spring	1	ΡΙ		\$980
Spring GSU CLEC Lecture PI funding for external speaker for a public lecture \$980				1, 2, 1	4,00
			PI		\$980
	2005	support		series in mathematics	

OTHER ACTIVITIES

Reviewer work	Journals: Topology and its Applications, Topology Proceedings, Quaestiones Mathematicae, Houston Journal of Mathematics, Proceedings A.M.S., International Journal of Mathematics and Mathematical Sciences, Commentationes Mathematicae Universitatis Carolinae, Sochoow Mathematical Journal, Rendiconti Circ. Palermo, Mathematica Bohemica, Colloquium Mathematicum, Mathematics Magazine (MAA), Theory and Applications of Categories, Mediterranean Journal of Mathematics, Acta Mathematica Hungarica, Questions and Answers in Topology, Filomat, Hacettepe Journal of Mathematics and Statistics, Theory in BioSciences, Scientific Reports		
	 Editorial Board member of <i>International Journal of Topology</i> (MDPI) (March 25-) Editorial Board member of the <i>Electronic Journal of Mathematics</i> (since 		
	 Editorial Board member for <i>Open Journal of Mathematical Sciences</i> since Spring 21 		
	• Topics Editor for <i>Mathematics</i> (MDPI) since Fall 20		
	Editorial Board member for <i>Applied General Topology</i> (Since Summer 19)		
	• Editorial Board member for the <i>International Journal of Mathematics and Mathematical Sciences</i> (May 2014-December 2023)		
Editorial work	• Editorial Board member for the Geometry section of <i>The Scientific World Journal</i> (until 08/16 when the Geometry section was discontinued)		
	• Editorial Board member for the Geometry section of <i>International Scholarly Research Notices</i> (till the journal was discontinued 12/17)		
	• Editorial Board member for the Geometry section of <i>Journal of Mathematics (May 2014-December 2023)</i>		
	• Editor for the <i>General Topology</i> section of the book <i>Open Problems in Topology II</i> , Elliot Pearl (editor), Elsevier 2007.		
	• Guest editor for <i>Topology Proceedings</i> 31 No 2 (2007) (proceedings of the 21st Summer Conference on Topology and its Applications, Georgia Southern University, July 6-9, 2006)		
	• Main editor (with E. Pearl) of the collective volume <i>Beyond Topology</i> , Contemporary Mathematics #486, A.M.S. 2009.		

Conference organization	 Member (2005-present) and former Chair (elected to 3 years term 2014-2017) of the Advisory Board to Summer Conferences on Topology and its Applications Member of the Advisory Board to Spring Topology and Dynamics Conferences (2007-2019) Member of the Scientific Committee and session organizer: 37th Summer Conference on Topology and its Applications, Youngstown State University, Youngstown, OH, July 2023 Main organizer: 51st Spring Topology and Dynamics Conference, NJCU, March 2017 Organizer (with S. Hernandez and G. Luckacs) of the special session on Topology+Algebra and Analysis at the 32nd Summer Conference on Topology and its Applications, Dayton University, OH, June 2017 Organizer (with S. Hernandez and G. Luckacs) of the special session on Topological Methods in Algebra and Analysis at the 31st Summer Conference on Topology and its Applications, Leicester University, UK, August 2-5, 2016 Organizer (with G. Seal) of the special session Categorical Topology, Joint Mathematics Meeting (AMS-MAA), Baltimore, MD, January 15-18, 2014 31st Southeastern Atlantic Regional Conference on Differential Equations, September 30th-October 1st, 2011, Georgia Southern University. AMS Southeastern sectional meeting, Statesboro, GA, March 12-13, 2011. Main organizing committee, organizer of the special session on Categorical Topology (with G. Seal), and of the special session on Set-theoretic topology (with P. Nyikos) 44th Spring Conference on Topology and Dynamics, Mississippi State University, March 18-20th, 2010. Main organizer: 21st Summer Conference on Topology and its Applications, Georgia Southern University, July 6-9, 2006. Participation in the organization of the French-Japanese conference on Hyperspace topologies, La Bussière, France, October 1997
Short term visiting positions	 One-month research stay at the Mathematical Institute of Burgundy, Dijon, France (funded by Mathematical Institute of Burgundy), December 2005-January 2006. One-month research stay at the University of Auckland, New Zealand (funded by the French Ministry of Foreign Affairs and the University of Auckland), December 2003-January 2004. 3 months research position at RUCA University of Antwerp, Belgium, November 2000-February 2001 (funded by prof. Robert Lowen's research grants).
Fall 2001-Fall 2002	Creation and Organization of the Graduate Seminar of the Math Department, University of Mississippi.

TALKS AT CONFERENCES

July 2023	On pointfree approach theory, 37th Summer Conference on Topology and its Applications, Youngstown State University, Youngstown OH, July 17-21, 2023
May 2023	(invited) <i>Introducción a Teoría de Convergencia</i> , three parts workshop, Tercer Taller Estudiantil de Topología Categórica, Benemétrica Universidad Autónoma de Puebla, Mexico
March 2022	(invited) Espacios de convergencia: ¿por qué? Segundo Taller Estudiantil de Topología Categórica, Benemétrica Universidad Autónoma de Puebla, Mexico
May 2021	Special subsets of βX and non-topological convergence properties characterized topologically, 54th Spring Topology and Dynamics Conference, Murray State University, May 12-15, 2021
July 2018	Completeness number vs paving number of the upper Kuratowski convergence, 33rd Summer Conference on Topology and its Applications, Western Kentucky University, Bowling Green KY, July 17-20, 2018
March 2017	Pointfree convergence: convergence frames, 51st Spring Topology and Dynamical Systems Conference, NJCU, Jersey City, NJ, March 8-11, 2017.
August 2016	Convergence frames, 31st Summer Conference on Topology and its Applications, Leicester University, UK, August 2-5, 2016
March 2016	On metrizability of dual groups, 50th Spring Topology and Dynamical Systems Conference, Baylor University, Waco, TX, March 10-13, 2016.
November 2015	A flipped classroom model and self-graded homework, New Jersey Sectional MAA meeting, Kean University, November 14, 2015
June 2015	Remarks on metrizability of dual groups, 30th Summer Conference on Topology and its Applications, NUI Galway, Ireland, June 23-26, 2015
July 2014	<i>Pointfree convergence</i> , 29th Summer Conference on Topology and its Applications, College of Staten Island, Staten Island, NY, July 23-26, 2014
March 14	A discussion of a flipped classroom model (for Calculus) and of the use of self-graded homework, 3 rd Annual Georgia Scholarship of STEM Teaching and Learning Conference, Georgia Southern University, March 7, 2014
January 2014	Regularity, function spaces, and contractive extensions in Convergence-Approach Spaces, Special session on Categorical Topology, Joint Mathematics Meeting (AMS-MAA), Baltimore, MD, January 15-18, 2014
July 2013	(invited workshop leader in the <i>Asymmetric Topology</i> special session) <i>An introduction to convergence space methods in Topology</i> , 28th Summer Conference on Topology and its Applications, Nipissing University, North Bay, Canada, July 23-26

March 2013	Regularity and contractive extensions in convergence approach spaces, 47th Spring Topology and Dynamics Conference, Central Connecticut State University, New Britain, March 23-25
August 2011	Diagonality and core compactness in spaces of open sets, 11th Topological Symposium, Prague, Czech Republic.
March 2011	A unified theory of function spaces and hyperspaces: local properties, Special session on Set-theoretic Topology, 2011 Spring AMS Southeastern sectional meeting, March 12-13, Georgia Southern University.
March 2011	Diagonality in spaces of open sets, Special session on Categorical Topology, 2011 Spring AMS Southeastern sectional meeting, March 12-13, Georgia Southern University.
July 2010	When are the Isbell topology on $C(X, \mathbb{R})$ and its variants group topologies? Algebra meets Topology: advances and applications, July 19-23, Barcelona, Spain.
June 2010	(invited) <i>Consonance versus infraconsonance</i> , 2010 International Conference on Topology and its Applications, June 26-30, 2010, Nafpaktos, Greece.
December 2009	(invited) On function space structures induced by hyperspace structures, Aspects of Contemporary Topology IV, December 13-19, Antwerp, Belgium
March 2009	When is the Isbell topology a group topology? Spring Topology and Dynamics Conference, March 7-9, 2009, Gainesville, FL.
October 2008	(invited) <i>Differentiability as continuity—an update</i> . Special Session on Set-Theoretic Topology, AMS sectional meeting, Huntsville, AL.
June 2008	(invited workshop leader) <i>Convergence Structures</i> , Advances in Set-Theoretic Topology, Conference in honor of T. Nogura's 60 th birthday, Erice, Italy
December 2007	(invited) Exponential Objects in Top, PrTop and ParaTop, Aspects of Contemporary Topology III, Antwerp, Belgium.
July 2007	Spaces of genotypes and of phenotypes, 2007 Summer Conference on Topology and its Applications, Castelló, Spain
March 2006	(invited) <i>Differentiability as continuity</i> , 2006 Spring Topology and Dynamics Conference, University of North Carolina at Greensboro, NC.
July 2005	Stability of local topological properties under product, 2005 Summer Conference on Topology and its Applications, Denison University, Granville, OH.
March 2005	(invited) <i>A convergence-theoretic approach to product theorems</i> , Southeastern AMS meeting, Special session in Honor of D.C. Kent, Bowling Green, KY.
March 2004	product of D-compactoid filters and product theorems for spaces and maps, 2004 Spring Topology and Dynamics Conference, University of Alabama at Birmingham, Alabama

July 2003	Product of compactoid filters and product theorems for spaces and maps, 2003 Summer Conference on Topology and its Applications, Howard University, Washington, DC.
July 2003	Stability of local topological properties under supremum and product, Conference in Honor of A. V. Arhangelskii, Brooklyn College of CUNY, New York.
January 2002	(invited) <i>Productively Fréchet spaces</i> ; special session on Topology and its Applications at the San Diego AMS annual meeting.
August 2000	Coreflectively modified duality in convergences and convergence-approach spaces; Categorical Methods in Algebra and Topology, Bremen, Germany.
July 1998	Product of sequential and first-countable spaces; International School of Mathematics "G. Stampacchia", Convergence and Topology, Erice (Sicily), Italy.
October 1997	Whitehead theorem and hyperspaces; French-Japanese conference on hyperspace topologies, La Bussière, France.
September 1997	A common convergence-theoretic approach to products; function spaces and hyperspaces, XIV International Congress of Topology, Milazzo (Messina), Italy.

DIRECTION OF STUDENTS

Undergraduate research projects

At NJCU

- Rayza Riofrio, Continuity: a journey from the real line to convergence spaces, Summer 2023
- Sally Mangassa, *Order and Spacetime*, Summer 2022
- Rachael Mozzarella, *Domain Theory and Topology*, Summer 2022
- Daniel Esteva, Quaternions and their geometric interpretation, Summer 2021
- Jason Gonzaga, Spaces of ultrafilters and convergence spaces, Summer 2020
- Abdelrahman Bereka, *Real Induction*, Summer 2019
- Leonardo Moncada, Counting collisions, tracking beams of light, and Pi, Summer 2019
- Ammer Abdin, Convergence, filters and ultrafilters, Summer 2019 and Summer 2020
- Angel Madera, Fractals and fractal dimension, Summer 2018
- Crystal Simon, A geometric approach to the Basel problem, Summer 2018
- Fadoua Chigr, *Elements of convergence theory*, Summer 2017 (presented at NJCU Research Symposium, April 18; at the STEM C2 Research Summit at Bergen Community College on April 13, 2018; at NYC Math Alliance Regional Conference, Dean University, September 15, 2018)
- Fares Boutrous, *Decomposition of continuity*, Summer 2017 (presented at NJCU Research Symposium, Spring 18)

• At Georgia Southern

- Daniel Diaz Casanueva, *Quotient of metric spaces*, Fall 2012-Spring 2013
- William Trott, *Ultrafilter techniques in Ramsey Theory* (Fall 2011 and Spring 2012: presented at Eagle Undergraduate Mathematics Conference and Kennesaw Mountain Undergraduate Mathematics Conference in Spring 2012)
- Anh Tran, *Structure of spaces of ultrafilters and combinatorial applications* (Fall 2009 and Spring 2010: presented at Eagle Undergraduate Mathematics Conference in Spring 2010)
- Jessee Nesmith, *Filters and compactifications*, Spring and Fall 2008

• Other undergraduate research direction work:

Bryan Castro Herrejón, UNAM, Mexico. Submitted preprint On connected subsets of a convergence space

• Other: gave preparation sessions for the annual Putnam Competition at Georgia Southern every year (2004-2014)

Master's Thesis directed

At NJCU

- Luis Rodriguez, *On theories of integration*, Spring and Summer 2023
- Fadoua Chigr, Convergence spaces theory and applications in Topology, Fall 2018-Fall 2019

- Naima Ouabourrane, On the concepts of limit and of infinitesimal, Fall 2017-Spring 2018
- Abdurhaman Pllana, *Elements of fixed point theory*, Fall 2016-Spring 2017
- Sofiane Boudib, On the development of the concept of group, Fall 2015-Spring 2016
- Jose Pedraza: Filters, grills and Ramsey Theory, Spring 2015-Spring 2016
- Zineb Hassoune, Concepts of integral, Fall 2015-Fall 2016
- Ray Macchiarola: *Decomposition of continuity*, Fall 2014-Spring 2015

• At Georgia Southern

- William Trott, Elements of convergence approach space theory, May 2014
- Nathan Farmer, Compact filters and the Arzelà-Ascoli Theorem, May 2012

Work with PhD students

• PhD jury:

- Karen Van Opdenbosch, *A study of topological properties in approach theory using monodical topology*, Free University of Brussels and University of Antwerp, Belgium, February 2019
- Emilio Angulo-Perkins, *Algunas adjunciones a GConv*, Benemétrica Universidad Autónoma de Puebla, Mexico, April 2021
- Jesús González Sandoval, Levantamiento de estructuras, operadores límite y subcategorías coreflexivas en categorías topológicas, Benemétrica Universidad Autónoma de Puebla, Mexico, August 2021

• Informal co-direction of PhD thesis:

- Meryem Ateş, *Applications of approach theory to hyper topologies*, director: Sevda Sağıroğlu Peker, Ankara University, Turkey, June 2024
- Jesús González Sandoval, *Levantamiento de estructuras, operadores límite y subcategorías coreflexivas en categorías topológicas*, director: Juan Angoa, Benemétrica Universidad Autónoma de Puebla, Mexico, August 2021
- Emilio Angulo-Perkins, *Algunas adjunciones a GConv*, director: Juan Angoa, Benemétrica Universidad Autónoma de Puebla, Mexico, April 2021, *Cum Laude*

SERVICE

Department and University Services at New Jersey City University

Departmental Committees and service:

- Department Chair (Summer 2021-Spring 2024)
- Department co-chair (Fall 2020-Summer 2021)
- Curriculum committee (Fall 2014-Spring 2021)
- Graduate committee (Fall 2014-Spring 2021)
- Lab Coordinator (Spring 2015-Fall 2019)
- Tutoring lab Coordinator (Fall 2017-Fall 2019)

University service:

- Implementation of Math placement coordinator (Spring 2025)
- Assessment task force (Fall 2025-present)
- ACE student success lab (Spring 2022-Fall 2022)
- First-Gen Champion Institute (Fall 2023)
- Academic Master Plan, Goal III (Community of care) facilitator (November 2023)
- University Personnel Committee, co-chair (Fall 2023-Spring 2024)
- Honors Program Committee (Summer 2018-Spring 2021)
- SBR (Separately Budgeted Research) Task Force (Spring 2017-Summer 2017)
- SBR steering committee (Fall 2018-Fall 2019)
- Institutional Review Board member (Fall 2015-Summer 2020)
- Senate Planning, Development & Budget Committee (Fall 2015-Spring 2017)

Other:

- Represents the College of Arts and Sciences at most university functions
- Represented the Mathematics Department at multiple Undergraduate and graduate Open House and admission events (2015-2024)
- KME honor society speaker (November 2014): counting with Buzz: to infinity and beyond!
- CTL workshop (February 2015): Getting started with LyX
- Presidential research roundtable (February 2015): Compactness for all!
- Provost Research day presentation, October 2017
- Research Symposium podium presentation, April 2018
- Organization of a major international conference (51st Spring Topology and Dynamical Systems Conference, NJCU, March 8-11, 2017)

Department and University Services at Georgia Southern

University Senator: Fall 2010—Summer 2013 University Senator Alternate: Spring 2010

Departmental Committees:

- Strategic Planning committee (2005)
- Colloquium committee (2005-2009, 2010-2012, Chair 2006-2009)
- Graduate committee (2007-spring 2008; Spring 2009, Fall 2013-Spring 2014)
- Hiring Task Force (April-May 2008)
- Rubrics committee (Spring 2010)
- Search Committee for Lecturer (Fall 2010-Spring 2011)
- Post-tenure committee (Fall 2012-Spring 2013)
- Election committee (Fall 2013-Spring 2014)
- Course and Curriculum Committee (Chair Fall 2013-Spring 2014)

College-level Committees:

- Teaching Committee Chair (2008)
- Search Committee for Associate Dean (Fall 2010)
- Bylaws ad-hoc committee (Spring 2011)
- Governance Committee (Fall 2011-Fall 2013)

University-level Committees:

- Comprehensive Review Program University Task Force (Fall 2008-Spring 2009)
- Parking and Transportation Committee (Fall 2011)
- University Faculty Welfare Committee (Fall 2011-Spring 2013)
- Faculty Senate Executive Committee (Fall 2011-Summer 2013)
- University Faculty Research Committee Chair (Fall 2011-Spring 2012)
- Faculty Senate Moderator and Chair of Senate Executive Committee (August 2012-August 2013)
- Community Engagement Committee (Summer 2012-Summer 2013)
- Space Planning Committee (Summer 2012- Summer 2013)
- Institutional Effectiveness Committee (Summer 2012- Summer 2013)
- SACS Steering Committee Action Team #1, Governing Board (Spring 2013-Spring 2014)
- Feasibility study team hotel/conference center (Summer 2013-Spring 2014)
- AAUP Shared governance committee, Georgia Southern Chapter (Spring 2010-Spring 2014)