

CURRICULUM VITAE

John Carl Smith III

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OFFICE

Department of Mathematics
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EDUCATIONAL BACKGROUND

- Ph.D. Mathematics, University of North Texas (Denton, Texas), August 1999
- M.S. Mathematics, Angelo State University, August 1991
- B.S. Biology, Angelo State University, May 1983

EMPLOYMENT HISTORY

- Professor of Mathematics, Angelo State University, August 2014 – present.
- Associate Professor of Mathematics, Angelo State University, August 2009 – August 2014.
- Assistant Professor of Mathematics, Angelo State University, August 1999 – August 2009.
- Instructor of Mathematics, Angelo State University, August 1994 – August 1999.
- Teaching Fellow, University of North Texas, August 1991 – August 1994.
- Secondary Mathematics Teacher, Edison Junior High (San Angelo, Texas), January 1984 – August 1991.
- Photographer, Jim Bean Photography (San Angelo, Texas), January 1977 – January 1984.

TEACHING EXPERIENCE

- Angelo State University, September 1994 – present.
Courses Taught: Abstract Algebra, Topology, Complex Variables, Probability and Statistics, Linear Algebra, Statistics, Evolution of Mathematics, Calculus I, Calculus II, Analytic Geometry, Trigonometry, College Algebra, Contemporary Mathematics, Business Math I and II, Fundamentals of Mathematics II, Finite Mathematics, Elementary Statistics, University Studies, Logic (in the Philosophy department), Introduction to Abstract Mathematics, Discrete Math I, Discrete Math II, Precalculus I, Calculus 3, Probability for Educators (graduate class), five graduate-level summer courses for area teachers.
- University of North Texas, August 1991 – August 1994.
Courses Taught: Calculus I and II, Precalculus, College Algebra, Math for Elementary Teachers.
- Edison Junior High, January 1984 – August 1991.

Courses Taught: Seventh Grade Mathematics, Seventh Grade Honors Mathematics, Mathematics for At-Risk Students, Eighth Grade Honors Computer Literacy.

DIRECTED RESEARCH FOR UNDERGRADUATES

- Huong Vo; Mathematics 4091, *Topics in Topology*, Spring 2021
- Zach Nadeau, Neil Thiessen, Matt Mizell, Jacob Whitaker; Mathematics 4091, *Godel's Incompleteness Theorem*, Spring 2020.
- Neil Thiessen, Honors Project, *New Separation Axioms in Topology*, Fall 2019.
- Kiana Hollins, Mathematics 4391, *Digital Image Processing*, Spring 2019.
- Elena Clark, Jacob Ruebush, Tae-ei Park, Mathematics 4391, *Operations Research*, Spring 2018. Resulted in a poster presentation relating queuing theory to airline overbooking.
- Elena Clark, Mathematics 4391, *Topics in Complex Analysis*, Fall 2017
- Chris Turner, Mathematics 4391, *Chaotic Dynamic Systems*, Fall 2016.
- Patrick Hennecke, Mathematics 4391, *Topics in Complex Analysis*, Fall 2015.
- Sabrina Johnson, Mathematics 4391, *Topics in Probability*, Summer 2015
- Caitlyn Conaway, Jeremy Porche, Jackson Rebrovich, Shelby Robertson, *Topics in Algebra*, Fall 2014. Results were submitted as a poster presentation at the MAA National meeting in 2015.
- Heather Just, Mathematics 4391, *Topics in Algebra*, Summer 2014
- Greg Cook, Codi Foster, Shelby Robertson, Mathematics 4391, *Topics in Topology*, Spring 2014
- Lori Nabarette, Mathematics 4391, *Topics in Group Theory*, Summer 2012
- Stacy Lee (Carr Research Grant recipient), Mathematics 4391, *Fibonacci Cycles and Finite Field Representations*, Spring 2010. Stacy presented her results in two *Mathematics Seminars* and at the *Texas Academy of Sciences* (1st place for mathematics talk)
- Seth Comout, James Kelly, Stacy Lee (Carr Research Grant recipient), Valentin Torres, Mathematics 4391, *Fibonacci Cycles and Finite Field Representations*, Fall 2009
- Bryan Garrido and Jaymie Flowers, Mathematics 4391, *Matrices mod p*, Spring 2009
- Halley Newman (Carr Research Grant Recipient), Mathematics 4391, *A Probabilistic Algorithm for Measuring Coastline Length*, Fall 2007 – Spring 2008. Halley presented her results in two *Slowpitch Mathematics Seminars* (October 2007, February 2008) and at the *Texas Academy of Sciences* (1st place for mathematics talk)
- Kristen Truett, Mathematics 4391, *Topics in Probability*, Fall 2006.
- Tim Wilson and Raymond Cherry, Mathematics 4391, *Intuitive Topology*, Spring 2006.
- Shivam Pandey (Carr Research Grant Recipient), Mathematics 4391, *Applications of Fuzzy Logic*, Fall 2005 – Spring 2006.
- Akash Zaveri, Mathematics 4391, *Topics in Probability*, Spring 2005.
- Shivam Pandey, Mathematics 4391, *Topics in Fuzzy Logic*, Fall 2004.
- Kyle Elkins, Mathematics 4391, *Foundations of Real Numbers*, Summer 2004.

- Paul Dawkins (Carr Research Grant Recipient), Mathematics 4391, *Intuition Versus Formalism*, Fall 2003 – Spring 2004.
- Amanda Klein, Mathematics 4391, *Topics in Topology*, Summer 2003.
- Noorie Hanum, Keren Claasen, Ellen Ellis, Mathematics 4391, *Turing Machines and Incompleteness*, Spring 2003.
- Noorie Hanum, Mathematics 4391, *Topics in Graph Theory*, Fall 2002.
- Chris Tifticjian, Mathematics 4391, *The Axiom of Determinacy*, Summer 2002.
- Chantel Cleghorn, Mathematics 4391, *Topics in Complex Variables*, Fall 2001
- Jesse Crawford, Mathematics 4391, *Gödel's Incompleteness Theorem*, Spring 2001.

PUBLICATIONS

Thesis:

- J.C. Smith III, “The Computation of Ultrapowers by Supercompactness Measures,” Ph.D. thesis, 1999.

Recent Problem Solutions

- *School Science and Mathematics* #5429 (published), #5433 (acknowledged), #5437 (acknowledged), #5457 (acknowledged), #5469, #5470
- *Crux Mathematicorum* #4161 (acknowledged), #4162 (acknowledged), #4163 (acknowledged), #4164, #4174 (acknowledged), #4209
- *American Mathematical Monthly* #11538 (acknowledged), #11539 (acknowledged)

PRESENTATIONS

- “The Irrationality of Pi”, Angelo State Mathematics Seminar, January 2020.
- “Regular Polyhedra”, Angelo State Mathematics Seminar, January 2020.
- “The Axiom of Choice and a Game of Darts”, Angelo State Mathematics Seminar, February 2018.
- “Perfect Probabilities from Imperfect places”, Angelo State Mathematics Seminar, September, 2017
- “Trisecting Angles: An Introduction to Impossibility Theorems”, Angelo State Mathematics Seminar, February, 2016.
- “How the Inmate Optimized His Chances for Not Being Executed”, Angelo State Mathematics Seminar, October 2015
- “Those We Teach”, 2014 Texas Association of Extension 4-H Agents Annual Conference keynote speaker, August, 2014
- “The Fourth Dimension”, Angelo State Mathematics Seminar, September 2012
- “iTeach with the iPad”, NCTM national meeting, Philadelphia, PA, April, 2011
- “Fibonacci Cycles,” *Slowpitch Mathematics Seminar*, Angelo State University, April 2009
- “Hero’s Formula,” *Slowpitch Mathematics Seminar*, Angelo State University, January 2009
- “The Irrationality of Pi,” *Slowpitch Mathematics Seminar*, Angelo State University, October 2008

- “The Axiom of Choice,” *Slowpitch Mathematics Seminar*, Angelo State University, February 2008.
- “An Introduction to Finite Fields,” *Slowpitch Mathematics Seminar*, Angelo State University, September, 2007.
- “Jacob Bernoulli Meets George Washington...And Some Homies,” *Slowpitch Mathematics Seminar*, Angelo State University, November 2006.
- “A Chance Meeting With Chance,” with Akash Zaveri, *Slowpitch Mathematics Seminar*, Angelo State University, April 2005.
- “Fuzzy Math: It’s Not Just For Politicians Anymore,” *Slowpitch Mathematics Seminar*, Angelo State University, October 2004.
- “An Introduction to Games Using...Games,” *Slowpitch Mathematics Seminar*, Angelo State University, February 2003.
- “Pi Goes to Vegas,” *Slowpitch Mathematics Seminar*, Angelo State University, January 2003.
- “Hypocritical Men, Hypothetical Machines,” *Slowpitch Mathematics Seminar*, Angelo State University, October 2002.
- “An Incomplete Look at Incompleteness,” *Slowpitch Mathematics Seminar*, Angelo State University, September 2002.
- “Irrational Thoughts,” *Slowpitch Mathematics Seminar*, Angelo State University, September 2002
- “Mathematical Science Fair Projects,” *Concho Valley Math and Science Conference*, Angelo State University, 2000.
- “The Natural Numbers and Other Annoyances,” departmental talk given in conjunction with my employment search, August 1999.
- “Just What is Determinacy?,” *Pi Mu Epsilon* Initiation Dinner, December 1996.
- “An Informal Proof of Gödel’s Incompleteness Theorem,” University of North Texas Graduate Student Series, March 1994

GRANTS

Teacher Quality Grant with Dr. Donna Gee, 2009-2015

ASU SERVICE

Departmental:

- Chair of the committee to create a new course: MATH 1333: Freshman Statistics, 2010
- Chair of the committee to create a new course: MATH 3305: Discrete Mathematics 2, 2010
- Chair of the committee to create a new course: MATH 2305: Discrete Mathematics 1, 2009
- Faculty sponsor for ASU’s Student Chapter of the Mathematical Association of America (MAA), 2001 - 2003.
- Search Committee for four tenure-track Assistant Professor positions.
- Chair of the Search Committee for the tenure-track Assistant Professor position, 2001.
- Departmental Who’s Who Coordinator, 2001 – 2010
- Departmental Presidential Award Coordinator, 2001 – 2010
- Texes Review, 2007 – 2010

University:

- Symposium Committee, 2005 – 2020, (served as chair 2009, 2010, 2017, 2018, 2020)
- University Core Curriculum Committee 2017-2019
- 2020 Endowed Professor Selection Committee
- SACS Academic Support and Student Services Committee
- Director for the Regional UIL Mathematics contest 2015-present
- College of Science T&P Committee (chair) 2014
- I/O Search Committee for Dept. of Psychology Spring 2015
- SACS Student Life Steering Committee 2011, 2012
- Student Appeals Committee, 2012 - present
- CITR Advisory Council 2011- 2012
- Multi-function Classroom Committee, October 2007
- UCTP, Fall 2006 – 2009
- Admissions Committee, 2006 – 2007
- Faculty Senate, Fall 2003 – Spring 2006.
- Student Affairs Committee (Faculty Senate) Chair, 2003
- University Affairs Committee (Faculty Senate), 2003
- Executive Committee (Faculty Senate), 2003 – 2006.
- Secretary of the Faculty Senate, 2004
- Institutional Effectiveness Coordinator Search Committee, 2004.
- Physical Therapy Faculty Search Committee, 2003 – 2008.
- Student Endowment Advisory Committee, 2003 – 2007.
- Student Fee Advisory Committee, 2002 – 2003. 2007 – 2010
- Awards Committee, 2003 – 2007.
- Physical Therapy Admissions Committee, 2003 – 2008.
- Homecoming Committee, 2003 – 2007.
- Gonfalonier, Fall 2001, Spring 2002.
- College of Sciences Mission Statement Task Force, February 2007
- University Tenure and Promotion Committee, 2010
- University Hearing Committee, 2010

OTHER SERVICE

- Served on the *Student Written Play Selection Committee* 2017, 2018
- Wrote a play that was produced by Angelo State during the 2017 Summer Dinner Theatre Series (*The Channeler 2*)
- Wrote a play that was produced by Angelo State during the 2014 Summer Dinner Theatre Series (*The Channeler*)
- Consultant, ASU Drama Department production of *Proof* by David Auburn, September 2007
- Wrote two plays that were produced by Angelo State during the 2007 Summer Dinner Theater series (*Destiny Leaves a Lot to the Human Genome Project, Mrs. 'The Elephant Man'*)
- Wrote three plays that were produced by Angelo State during the 2005 Summer Dinner Theater series (*Or Something Else Entirely, Antimatter, Between Any Two Points*)

- Guest Speaker for the AEP Distinguished Professor Music Series production of “Enoch Arden,” December 6, 2004.
- Audience Sing-Along Conductor for ASU’s Holiday Spooktacular, October 28, 2003 and October 28, 2004.
- Director of the UIL – Regional Mathematics Contest, 2001 – 2010.
- Finals Judge for the Regional Science Fair, 1999 – 2011.
- Faculty Sponsor for the Christian Campus Center, 1999 – present.
- Robert Frost in ASU’s ACTF production of “The Posthumous Life of Sylvia Plath et. Al.”, 2001.
- Elder at Johnson Street Church of Christ, 2003 – 2011
- Board of Directors for the West Texas Christian Foundation (president 2011)

HONORS AND AWARDS

- Nominated for the Gary and Pat Rodgers Distinguished Faculty Award, 2020
- Winner of the Gary and Pat Rodgers Distinguished Faculty Award, 2015
- Nominated for the Gary and Pat Rodgers Distinguished Faculty Award, 2012
- Nominated for the Gary and Pat Rodgers Distinguished Faculty Award, 2011
- Received the Presidential Award for Leadership and Service, 2011
- Received a University of Texas at Arlington Faculty Mentor Award
- Received the Angelo State Teaching Excellence Award, 2007

PROFESSIONAL MEMBERSHIPS

- American Mathematical Society, 1993 – 2005, 2009 – 2011
- Mathematical Association of America 1990 – 2005
- Association of Symbolic Logic 2005