CURRICULUM VITAE (2017)

PERSONAL DATA

Chad Scott
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EDUCATION

Degree	Award Date	Institution
Ph.D. (pure math)	August, 1993	Syracuse University
M.Sc. (applied math)	July, 1990	North Dakota State University
B.A. (math & comp. sci.)	May, 1987	Concordia College
M.S. (computer science)	(near completion)	Syracuse University

PROFESSIONAL EMPLOYMENT

Rank	Employer	Dates
Full Professor and Chair	Univ. of Wisc.-Superior	9/05-present
Associate Professor	Univ. of Wisc.- Superior	9/99-9/05
Assistant Professor	Univ. of Wisc. -Superior	9/94-9/99
Teaching Assistant	Syracuse Univ -CIS	1993-1994
University College Adult and Alternative Learning Teacher	Syracuse University	1993-1993
Research Fellow	Syracuse Univ -Math	1992-1993
Teaching Assistant	Syracuse Univ -Math	1990-1992
Research Assist (appl math)	North Dakota State Univ	1988-1990
Teaching Assistant (math)	North Dakota State Univ	1987-1988

NOTABLE ACHIEVEMENTS AS DEPARTMENT CHAIR

New Computer Science Major (University of Wisconsin System)
New Minor Program (Information Technology and Systems)
New Academic Building Department Wing Adjacencies (Swenson Hall)
Dual Degree Program with Kafkas Univeristy (Kars Turkey)
Pre-Engineering Associates Degree (UW-Superior)
Major CSCI Laboratory Recurring Budget Line (in progress)

OTHER PROFESSIONAL EXPERIENCE

Experience	Dates
Content Developer for McGraw-Hill / ALEKS project	Summer, 2015
Chair of the Wisconsin University System Mathematics Placement Exam Committee	2001-2006
Advanced Placement Calculus Faculty Consultant for ETS	1997-2012
Lead Developer (LAMP Architecture) for Oppna Web Solutions	1998-2006
Member, University of Wisconsin - Center for Placement Testing Mathematics Placement Exam Committee	1994-current
Coordinator, NYS Regional Graduate Mathematics Conference	Spring, 1993
President, Mathematics Graduate Organization of Syracuse Univ	1992-1993

Instructor, Syracuse Univ Grad School (Intl Teach Assit program)	1992-1993
Database Design Team, American Crystal Sugar Research	Spring, 1987

CURRENT ACADEMIC INTERESTS

Mathematics
Analysis on Manifolds, Nonlinear PDEs, Nonlinear Hodge Theory, Differential Geometry, Differential Forms and Harmonic Analysis, Measure, Real and Complex Functions

Computer Science
Web applications, LAMP, CSS, SQL, javascript, python and sage, simulation

ACADEMIC HONORS AND AWARDS

Award	Brief Description	Dates
NSF ROA	Under DMS-9401104	Summer, 1998
NSF ROA	Under DMS-9401104	Summer, 1997
NSF ROA	Under DMS-9401104	Summer, 1995
Doctoral Prize	5 awards among 250 Syracuse Ph.D.s	Spring, 1994
Research Fellowship	Syracuse University	1992-1993
Summa Cum Laude Grad	M.Sc. in mathematics GPA: 4.0	Summer, 1990
Summa Cum Laude Grad	B.A. in math and Computer Science	Spring, 1987

PUBLICATIONS & PRESENTATIONS

1) **Performance of Program BDIA. Integral Equation Solution for the Band Electrode**, April 1989, Mathematics, NDSU.

2) **Performance of Program RDLA. Integral Equation Solution for the Ring Electrode**, April 1989, Mathematics, NDSU (with D.K. Cope).

3) **Transient Behavior at Planar Microelectrodes. Diffusion Current at a Band Electrode by an Integral Equation Method II**, J. Electroanal. Chem. 280 (1990), 27-35 (with D.K. Cope, U. Kalapathy and D.E.Tallman).

4) **Transient Behavior at Planar Microelectrodes. Diffusion Current at Ring Electrodes by the Integral Equation Method**, J. Electroanal. Chem. 285 (1990), 49-70 (with D.K. Cope and D.E. Tallman).

5) **LP Theory of Differential Forms on Manifolds**, Trans. Amer. Math. Soc. 347 (1995), 2075-2096.

4) **Boundary Value Estimates for Harmonic Forms**, Proc. Amer. Math. Soc. 124 (1996), 1467-1471 (with T. Iwaniec and M. Mitrea).

5) **Nonlinear Hodge Theory on Manifolds with Boundary**, Annali di Matematic pura ed applicata (IV), Vol. CLXXV (1999), 37-115 (with T. Iwaniec and B. Strofollini)

8) **Open Source Web Based Solution, Emprove, for Satisfying JCAHO Standards**, software and patent application (with G.Ammerman).

9) **The Hadamard-Shwarz Inequality**, Journal of Function Spaces and Applications, Vol. 2, No. 2 (May 2004) (with A. Kravetz, T. Iwaniec, J. Kauhanen)

10) **The 25 Cent Problem (An Homage to Erdos),** Joint Mathematics Meetings, San Antonio TX, (January, 2015)

11) **Computations for Alphavirus Vectors and Vaccination**, in progress, (with K.Kamrud)

12) **A Geometric Characterization of Higher Order Sobolev Spaces on Manifolds**, in progress / preprint, (with L. Budney)

13) **Sage in Upper Division Mathematics Courses**, 29th International Conference on Technology in Collegiate Mathematics, (March, 2017)

M.Sc. THESIS

Increased Efficiency in a Solution Method for Integral Equations of the First Kind with Logarithmic Singularities, July 1990, NDSU.

Ph.D. THESIS

Lp Theory of Differential Forms on Manifolds, August 1993, Mathematics, Syracuse University.

MEMBERSHIP

AMS (American Mathematical Society)
MAA (Mathematical Association of America)

REFERENCES

Victor Piotrowski, Lead Program Director, National Science Foundation
Tadeusz Iwaniec, Professor of Mathematics, Syracuse University.
Davis Cope, Professor of Mathematics, North Dakota State University.
Dean Yohnk, Dean of Faculty, University of Wisconsin - Superior