

## CURRICULUM VITAE

## JENNIE D'AMBROISE

My Website: [www.jdambroise.com](http://www.jdambroise.com)My YouTube Channel: [goo.gl/exBNhM](https://goo.gl/exBNhM)

SUNY Old Westbury  
 Department of Mathematics,  
 Computer & Information Systems  
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- EDUCATION**
- Ph.D. Mathematics 2010, University of Massachusetts at Amherst  
 Dissertation: *Generalized EMP and non-Linear Schrödinger-type reformulations of some scalar field cosmological models*,  
 Advisor: Floyd L. Williams
- B.Sc. Mathematics 2003, University of Massachusetts at Amherst  
 Honors Thesis: *Cryptographic Methods*  
 Graduation Honors: Magna Cum Laude  
 Advisor: Siman Wong

- EXPERIENCE**
- 2022 - future Associate Professor, SUNY Old Westbury  
 2015 - 2022 Assistant Professor, SUNY Old Westbury  
 2013 - 2015 Visiting Assistant Professor, Amherst College  
 2011 - 2013 Visiting Assistant Professor, Bard College  
 2010 - 2011 Assistant Professor, University of Minnesota at Morris (UMM)  
 2008 - 2010 Lecturer, University of Massachusetts at Amherst (UMass)  
 2003 - 2008 Teaching Associate, University of Massachusetts at Amherst

- RESEARCH** Nonlinear evolution equations, PDEs, Mathematical Physics, Numerical and exact methods,  
**INTERESTS** Mathematical aspects of quantum theories,  $\mathcal{PT}$ -symmetry, NLS on curved surfaces

**PEER-REVIEWED PUBLICATIONS**

( \* with undergraduate student)

18. J.D'Ambroise and F. L. Williams, *Relating Some Nonlinear Systems to a Cold Plasma Magnetoacoustic System*, J. Mod. Phys. **11** No. 7 (2020) 100726, <https://m.scirp.org/papers/100726>.
17. J.D'Ambroise, P.G. Kevrekidis, and P. Schmelcher, *Bright solitary waves on a torus: existence, stability and dynamics for the nonlinear Schrödinger model*, Phys. Lett. A **384** No. 7 (2020) 126167, [arXiv:nlin/1906.06001](https://arxiv.org/abs/nlin/1906.06001).
16. J. D'Ambroise and P.G. Kevrekidis, *2D solutions of the hyperbolic discrete nonlinear Schrödinger equation*, Physica Scripta **94** No. 11 (2019) 115203, [arXiv:nlin/1810.00712](https://arxiv.org/abs/nlin/1810.00712).
15. J. D'Ambroise, D. J. Frantzeskakis, and P. G. Kevrekidis, *Travelling dark-bright solitons in a reduced spin-orbit coupled system: application to BEC*, Romanian Rep. in Phys. **70** (2018), 503, [arXiv:nlin/1710.03270](https://arxiv.org/abs/nlin/1710.03270).
14. T. M. Bersano, V. Gokhroo, M. A. Khamehchi, J. D'Ambroise, D. J. Frantzeskakis, P. Engels, and P. G. Kevrekidis, *Three-Component Soliton States in Spinor  $F = 1$  Bose-Einstein Condensates*, Phys. Rev. Lett. **120** (2018), 063202, [arXiv:cond-mat/1705.08130](https://arxiv.org/abs/cond-mat/1705.08130).
13. J. D'Ambroise and F. L. Williams, *Elliptic function solutions in Jackiw-Teitelboim dilaton gravity*, Adv. Math. Phys. (2017), 2154784, [arXiv:nlin/1705.08585](https://arxiv.org/abs/nlin/1705.08585).
12. J. D'Ambroise and P. G. Kevrekidis, *Existence, Stability & Dynamics of Nonlinear Modes in a 2d Partially  $\mathcal{PT}$  Symmetric Potential*, Applied Sciences **7** No. 3, (2017), 223, [arXiv:nlin/1701.00553](https://arxiv.org/abs/nlin/1701.00553).
11. J. D'Ambroise, M. Salerno, P. G. Kevrekidis, and F.Kh. Abdullaev, *Multidimensional discrete compactons in nonlinear Schrödinger lattices with strong nonlinearity management*, Phys. Rev. A **92** (2015), 053621, [arXiv:nlin/1508.03008](https://arxiv.org/abs/nlin/1508.03008).
- 10.\* J. D'Ambroise, P. G. Kevrekidis, and D. Law, *Asymmetric wave propagation through saturable nonlinear oligomers*, Photonics **1** No. 4 (2015), 390, [arXiv:nlin/1412.4856](https://arxiv.org/abs/nlin/1412.4856).

9. J. D'Ambroise, P. G. Kevrekidis and B. A. Malomed, *Staggered  $\mathcal{PT}$ -symmetric ladders with cubic nonlinearity*, Phys. Rev. E **91** (2015), 033207, [arXiv:nlin/1409.7413](#).
8. J. D'Ambroise, S. Lepri, B. A. Malomed and P.G. Kevrekidis,  *$\mathcal{PT}$ -symmetric ladders with a scattering core*, Phys. Lett. A **378** No. 38-39 (2014), 2824, [arXiv:nlin/1407.1086](#).
7. J. D'Ambroise, P. G. Kevrekidis and B. A. Malomed, *Quasi-energies, parametric resonances, and stability limits in ac-driven  $\mathcal{PT}$ -symmetric systems*, Chaos **24** (2014), 023136, [arXiv:nlin/1308.3245](#).
6. J. D'Ambroise, P. G. Kevrekidis and S. Lepri, *Eigenstates and instabilities of chains with embedded defects*, Chaos, **23** No. 2 (2013), p 023109 - 023109-10, [arXiv:nlin/1211.5707](#).
5. J. D'Ambroise, P. G. Kevrekidis and S. Lepri, *Asymmetric wave propagation through nonlinear  $\mathcal{PT}$ -symmetric oligomers*, Jour. of Phys. A: Math. and Theor. **45** No. 44 (2012), 444012, [arXiv:nlin/1202.4483](#).
4. J. D'Ambroise and F. L. Williams, *Parametric solution of a certain nonlinear differential equations in cosmology*, Jour. of Nlin. Math. Phys., **18** No. 2 (2011), 269-278 [arXiv:gr-qc/1202.4422](#).
3. J. D'Ambroise and F. L. Williams, *A dynamic correspondence between FRLW cosmology with cosmological constant and Bose-Einstein condensates*, Jour. of Math. Phys., **51** No. 6 (2010), 062501-062511, [arXiv:math-ph/1007.4237](#).
2. J. D'Ambroise, *A Schrödinger formulation of Bianchi I scalar field cosmology*, Internat. Jour. of Pure and Applied Math., **42** No. 3 (2008), 405-410, [arXiv:hep-th/0711.3916](#).
1. J. D'Ambroise and F. L. Williams, *A nonlinear Schrödinger type formulation of FRLW scalar field cosmology*, Internat. Jour. of Pure and Applied Math., **34** No. 1 (2007), 117-126, [arXiv:hep-th/0609125](#).

#### CONFERENCE PROCEEDINGS

3. J. D'Ambroise and F.L. Williams, *Parametric solution of certain nonlinear differential equations in cosmology II*, Proc. of Sci. (2012), Invited Contribution for 7th International Conference on Math. Methods in Physics (ICMP), [arXiv:gr-qc/1208.4812](#).
2. J. D'Ambroise, *EMP reformulations of Einstein's equations as an application of a property of suitable second order differential equations*, conference proceedings for Lie Theory and its Applications to Physics, Varna Bulgaria, June 2009.
1. J. D'Ambroise, *Applications of elliptic and theta functions to Friedman-Robertson-Lemaître-Walker cosmology with cosmological constant*, A Window Into Zeta and Modular Physics, Cambridge University Press (2010) [arXiv:gr-qc/0908.2481](#).

#### UNPUBLISHED PAPERS

- 2.\* F. Kh. Abdullaev, J. D'Ambroise, P. G. Kevrekidis and Y. N. Truong Vu, *Some case example exact solutions for quadratically nonlinear optical media with  $\mathcal{PT}$ -symmetric potentials.*, [arXiv:nlin/1501.00519](#).
1. J. D'Ambroise, *EMP and linear Schrödinger models for a conformally Bianchi I cosmology*, [arXiv:hep-th/0809.4817](#).

#### TEACHING AWARDS

- May 2021 · SUNY Chancellor's Award for Excellence in Teaching (EIT) for Old Westbury campus
- May 2010 · Department of Mathematics and Statistics Teaching Award, UMass Amherst
- Apr 2009 · Residential First Year Experience Student Choice Award, UMass Amherst
- Apr 2007 · University of Massachusetts Distinguished Teaching Award (among two TAs university-wide)

#### FUNDS

- Sum 2021 · Model INstructors Differential Equations (MINDE) Workshop
- Spring 2020 · Faculty Guild: Pedagogy Foundations Fellowship
- Spring 2016 · Faculty Development Grant, SUNY Old Westbury: for video creation, [see my youtube series](#)
- Spring 2014 · Project in Innovative Curriculum and Teaching (PICT) Grant, Amherst College
- 2012 - 2014 · AMS-Simons Travel Grant
- Jul 2012 · AWM Workshop Speaker, at SIAM Annual Meeting AWM Workshop, Minneapolis, MN

- Jan 2009 · AWM Workshop Grant, Joint Mathematics Meetings, Washington D.C.
- Aug 2007 · Graduate Student Travel Grant, UMass Univ. and UMass Dept of Math & Stats
- May 2007 · Summer Research Assistantship, UMass Dept of Math & Stats

#### ONLINE FACULTY DEVELOPMENT COURSES

- Sum 2018 · Completed: Collab. Online Internat. Learning (COIL) Orientation, by SUNY COIL Center
- Sum 2017 · Completed: Grants and Proposals, by The Institute for Writing and Learning
- Spring 2016 · Completed with Distinction: Teach. & Learn. Cert. for New Faculty, by SUNY Ctr. for Prof. Dev.  
See online portfolio: <https://sites.google.com/site/jenniedambroiseportfolio>
- Spring 2016 · Completed with Distinction: Quality by Design, by SUNY Ctr. for Prof. Dev.
- S16-F16 · Completed: Online, Hybrid, and Blended Training, by SUNY Old Westbury with C. Shehigian

#### UNDERGRADUATE PROJECT SUPERVISION

- *Independent Study*  
F18 · Efrat Shani, Differential Geometry Reading Course
- *CSTEP Internship Supervisor: Noteguides Project*  
Wint 19 · Supervised 1 student, Asad Imam, making Differential Equations Noteguides  
F18 · Supervised 2 students, Asad Imam and Parwinder Kaur, making Pre-Calculus & Calc II Noteguides  
Sum 18 · Supervised 2 students, Asad Imam and Jacob Jones, making Calculus I-II Noteguides
- *Senior Project Primary Advisor*  
F12 - S13 · Emily Carlson, *A Model of Charge Transport in a Dye-Sensitized Solar Cell*, at Bard College  
F11 - S12 · Jeannette Benham, *Auditory Perception in Flatland: The Physical Applicability of a Two-Dimensional Cochlear Model*, at Bard College
- *Senior Project Non-Primary Advisor*  
F12 · Board Member for Grant Anderson, at the Bard College Prison Initiative  
F12 · Board Member for John Aufioros, at the Bard College Prison Initiative  
S11 · Secondary Advisor for Nick Grieme, *Finite-Element Method*, at UMM

#### TEACHING EXPERIENCE († videos, ★ MyMathLab, \* Mathematica, △ WebWork, ○ WebAssign, ⊙ OER Open Ed. Res.)

See various open access course materials: [www.jdambroise.com/classnotes](http://www.jdambroise.com/classnotes). Number of sections in parentheses.

- *SUNY Old Westbury*

S22	· Scientific Computing	· Differential Calculus ○ † ⊙	
F21	· Transitions to Adv. Math.	· Differential Calculus (2) ○ † ⊙	
S21	· Differential Equations △ † ⊙	· Differential Calculus (2) ○ † ⊙	
F20	· Transitions to Adv. Math.	· Differential Calculus (2) ○ † ⊙	
S20	· Geometry	· Differential Calculus (2) ○ † ⊙	
F19	· Advanced Calculus	· Differential Calculus ○ † ⊙	· PreCalculus †★
S19	· Differential Equations △ † ⊙	· Integral Calculus ★†	· Differential Calculus ★†
F18	· Multivariable Calculus ○ † ⊙	· Integral Calculus ★†	· Differential Calculus ★†
S18	· Differential Equations △	· Integral Calculus †	· PreCalculus †★
F17	· Differential Calculus ★†	· PreCalculus ★†	· Business PreCalculus ○†
S17	· Differential Equations	· Integral Calculus ★†	
F16	· Integral Calculus ★†	· Differential Calculus ★	· PreCalculus ★
S16	· Differential Equations	· Integral Calculus ★	
F15	· Integral Calculus ★	· Differential Calculus ★	· PreCalculus ★
- *Amherst College*

S15	· Linear Algebra (2) ★*		
F14	· Complex Analysis	· Differential Calculus ★†	
S14	· Intro. to Analysis	· Differential Calculus ★†	
F13	· Intro. to Analysis	· Multivariable Calculus ★	

- *Bard College*

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|-----|-----------------------------------|-------------------------------|
| S13 | · ODE/PDE *                       | · Integral Calculus (2) *     |
| F12 | · Linear Algebra with ODE         | · Integral Calculus (2) *     |
| S12 | · Complex Analysis                | · Integral Calculus (2) *     |
| F11 | · Ordinary Differential Equations | · Differential Calculus (2) * |

- *UMM*

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|-----|----------------------------|----------------------------|----------------------------|
| S11 | · Multivariable Calculus * | · Integral Calculus **     | · Differential Calculus ** |
| F10 | · Real Analysis            | · Differential Calculus ** |                            |

- *UMass*

*Section Lecturer*

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|----------|---|
| S10      | · Linear Algebra $\triangle$                    |
| S07, F09 | · Multivariate Calculus for Sci/Eng $\triangle$ |
| F06, S09 | · Integral Calculus for Sci/Eng $\circ$         |
| S05, F08 | · Differential Calculus for Sci/Eng $\circ$     |
| S08      | · Honors Integral Calculus                      |
| Su06     | · Integral Calculus                             |
| F04, F05 | · Basic Math Skills for the Modern World        |
| F03      | · Precalculus Trigonometry                      |

*Qualifying Exam Review Instructor*

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|------|-----------------|------------|
| Su06 | · Real Analysis | · Geometry |
|------|-----------------|------------|

*Recitation Instructor and Grader*

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| S06, F07 | · Ordinary Differential Equations |
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*Grader*

- |     |                       |                 |
|-----|-----------------------|-----------------|
| S04 | · Complex Analysis    | · Real Analysis |
| F03 | · Abstract Algebra II |                 |

## PROFESSIONAL SERVICES

- *Reviewer for Journals*

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|-----------|--|
| 2020-now  | · Physica Scripta (~1/yr)  |
| 2020-now  | · Journal of Modern Physics (~1/yr)  |
| 2019-now  | · Mathematics, An Open Access Journal from MDPI (~1/yr)                        |
| 2019-now  | · Applied Sciences, An Open Access Journal from MDPI (~1/yr)                   |
| 2018-now  | · Chaos: An Interdisciplinary Journal of Nonlinear Science (~2/yr)             |
| 2018-now  | · Wave Motion: An Internat. Jour. Reporting Research on Wave Phenomena (~1/yr) |
| 2017-now  | · Reviewer for Bulletin of the London Mathematical Society (~1/yr)             |
| 2016-now  | · Physics Letters A (~1/yr)  |
| 2012-now  | · Communications in Nonlinear Science and Numerical Simulation (~1/yr)         |
| 2010-2017 | · Mathematical Reviews/MathSciNet (~1/yr)                                      |

- *Session Chair for Conferences*

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|----------|---|
| May 2019 | · DS19: SIAM Conf. on App. of Dynamical Systems, Snowbird, UT |
| Jun 2011 | · LT9: Lie Theory and its App. to Phys., Varna, Bulgaria      |

- *Other*

- |          |   |
|----------|---|
| Dec 2020 | · Judge for SIMIODE V 2020 Challenge Using Diff. Eq. Modeling undergraduate contest |
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## ON CAMPUS SERVICE & ACTIVITIES

- *SUNY Old Westbury - CAMPUS-WIDE*

- |         |  |
|---------|--|
| F21-S22 | · Capital Planning Advisory Committee  |
| F21-S22 | · Promoting Recruitment, Opportunity, Diversity, Inclusion and Growth (PRODIG) Committee |
| F21-S22 | · Faculty University Awards Committee (FUAC)   |
| F21-S22 | · Faculty Senate Chair (i.e. Campus Governance Leader (CGL))                             |
| S21     | · Distance Learning Task Force, Faculty Co-Chair   |
| S21     | · PRODiG Committee, Faculty Co-Chair (as Faculty Senate Chair Designee)                  |
| S21     | · Academic Integrity Discussion, Faculty Group   |

- S21 · Faculty Mentoring Program, Mentor
- F20-S21 · Faculty Senate, Vice Chair and At-Large Senator
- Sum20 · Campus Proctoring Discussion, Faculty Group
- Apr 2019 · WISE Radio appearance, focusing on women in STEM
- F19-S20 · OER (Ad-Hoc) Committee
- F19 · Scholarship Reviewer, Old Westbury Institutional Advancement
- F18-F18 · Faculty Senate Vice Chair
- F18-S19 · Archiving Project for the Faculty Senate Website
- S17 · Committee for Shuttle Improvements, Chair
- F16-S18 · Faculty Senate Secretary & Treasurer
- F16-S18 · Faculty Judicial Committee
- recurring · Academic Standing Committee: Jun 2016, Jan 2016, Aug 2016, Jan 2017, Jun 2017, Aug 2017
- *SUNY Old Westbury - DEPARTMENTAL*
  - Nov 2019 · Networking event: WISE "Off The Clock" Dinner
  - S18-now · WebWork administrator, for open source online math homework on OW campus
  - F17-now · OW Representative at Delegate Assembly for the Metro NY Section of the MAA
  - S16-now · Academic and Transfer Advising
  - F19-S21 · Math Department Curriculum Committee Member
  - F17-S18 · Content Coordinator for Smart Scholars Program
  - Sum 2018 · Search Committee for Assistant Director for the Math Learning Center
  - S17 · Helped to draft Math Learning Center improvements recommendations
  - S16-S21 · CSTEP Coordinator for Math/CIS Dept.
  - F16-F18 · Math & CIS Faculty Senate Senator
  - recurring · Open House representative for Mathematics: Apr 2016, Nov 2016
  - Mar 2016 · Presentation: *Careers/Pathways for Math Majors*, sponsored by CSTEP  
See careers website: [www.jdambroise.com/mathcareers](http://www.jdambroise.com/mathcareers)
- *Amherst College*
  - Fall 2013 · Putnam Problems Practice Sessions
  - Nov 2013 · Graduate School Info Session
- *Bard College*
  - Aug 2011 · Graduate School Panel at Undergrad Workshop
- *UMM*
  - F10-S11 · Calculus Tutoring Center Math Liason
- *UMass*
  - F08-S10 · Calculus Tutoring Center, organizing and scheduling
  - F08-S10 · Mathematical Physics Seminar Organizer
  - F08, F09 · Distinguished Teaching Award Selection Committee
  - Jan 2008 · Volunteer renovation of Mathematics undergraduate lounge
  - S07, S08 · Workshop at Campus TA Orientation: *Making the Most of Your TA Experience Workshop*
  - Sep 2008 · Student welcome and discussion, Mathematics and Statistics TA Orientation
  - May 2008 · Dinner and discussion, Women and Minorities in Physics mentoring event

### PROFESSIONAL ORGANIZATIONS

- SIAM: Society for Industrial and Applied Mathematics
- AWM: Association for Women in Mathematics

### SEMINARS, WORKSHOPS, & ROUNDTABLES

- S20 · Host: Innovation Lab Workshop, How I Learned to Stop Taking Attendance and Increase Participation (two sessions), SUNY Old Westbury
- F20 · Co-Organizer: Community of Practice on Distance Instruction, SUNY Old Westbury
- Feb 2020 · Co-Presenter: Open Educational Resources (OER) Faculty Roundtable, SUNY Old Westbury
- Jun 2020 · Co-Host: Lessons Learned Exam Integrity Session, SUNY Old Westbury
- Nov 2018 · *Using Prep Videos for Math Class* (discussion prompt)

## Videos &amp; New Media in the Classroom, SUNY Old Westbury Faculty Roundtable

- F13-S15 · Nonlinear Waves Seminar, UMass Amherst
- Jun 2009 · Summer School: *Connecting Quarks with the Cosmos*, Univ Washington, Seattle WA
- Jun 2009 · Graduate Summer School: Geometry of Quantum Fields and Strings, UPenn
- Jun 2008 · MSRI Workshop: A Window Into Zeta and Modular Physics, UC Berkeley
- Jul 2009 · Career Mentoring for Women in Mathematics, Wheaton College, Norton, MA
- F08 - S10 · Organizer: Mathematical Physics Seminar

TALKS

- Lightning Talk: *Some Gaming Ideas for Grading Student Points*  
Sep 2019 · Second Annual Metro NExT Workshop, Courant Institute, NYC
- *2D solutions of the hyperbolic discrete nonlinear Schrödinger equation*  
May 2019 · DS19: SIAM Conf. on App. of Dynamical Systems, Snowbird, UT  
Aug 2018 · Internat. Conf. on Nonlin. Phenomena in BEC & Optical Systems, Tashkent, Uzbekistan
- *Roads and Wheels and Ellipses*  
Apr 2018 · The Math Talks (for undergraduate students), SUNY Old Westbury
- *Lightning Talk: Prep Videos for Math Courses*  
Apr 2018 · The Future of Higher Ed. – TLRC Spring 2018 Mini-Conference, SUNY Old Westbury
- *Wave Propagation in  $PT$ -Symmetric Systems*  
Apr 2017 · Applied Math Seminar, Univ. of Vermont at Burlington
- *Overview of Nonlinear Wave Equations Appearing in Cosmological Settings*  
Oct 2016 · Workshop on the Future of Vibration Energy Transfer, Seattle, WA
- *Multidimensional discrete compactons in nonlinear Schrödinger lattices*  
Jun 2016 · 4rd Internat. Conf. of Nonlinear Waves – Theory and Applications, Tsinghua Univ., Beijing, China  
May 2016 · Nonlinear Waves Seminar, UMass Amherst
- *Eigenstates of chains with embedded defects*  
Apr 2014 · Analysis and PDE Seminar, Worcester Polytechnic Institute, Worcester, MA  
Jun 2013 · 3rd International Conference of Nonlinear Waves – Theory and Applications, Beijing, China
- *Parametric and other exact solutions to Einstein's equations in terms of special functions*  
Sep 2012 · AMS Eastern Section Meeting, Special Session on Geometric Evolution Equations, RIT, NY  
Jul 2012 · AWM Workshop at SIAM Annual Meeting AWM Workshop, Minneapolis, MN
- *Parametric Solution of Certain Nonlinear Differential Equations in Cosmology*  
Jun 2011 · LT9: Lie Theory and its Applications to Physics, Varna, Bulgaria  
Jan 2011 · Joint Mathematics Meetings, New Orleans, LA
- *Elliptic functions in cosmology*  
Oct 2009 · AMS Fall Central Sectional Meeting, Baylor University, Waco, Texas
- *One correspondence used in reformulating Einstein equations for various scalar field cosmologies*  
Jun 2009 · LT8: Lie Theory and its Applications to Physics, Varna, Bulgaria  
Sep 2009 · Baylor University Mathematical Physics Seminar, Waco, Texas  
Sep 2009 · Texas A&M University Mathematical Physics Seminar, College Station, Texas
- *A linear Schrödinger formulation of  $d$ -dimensional Bianchi I cosmology and its relation to BECs*  
Aug 2008 · 5th International Conference of Math. and Computing, Plovdiv, Bulgaria
- *On Relating  $d$ -dimensional FRLW Cosmology to Bose-Einstein Condensates,*  
Jun 2008 · MSRI Workshop: A Window into Zeta and Modular Physics, UC Berkeley
- *A Schrödinger type formulation of some scalar field cosmologies,*  
Mathematical Physics and General Relativity Seminar, UMass Dept of Math & Stats, Nov 2007
- *A nonlinear Schrödinger type formulation of FLRW and Bianchi I&V scalar field cosmologies*  
Aug 2007 · 4th International Conference of Math. and Computing, Plovdiv, Bulgaria
- *A nonlinear Schrödinger type formulation of FLRW scalar field cosmology,*  
Geometric Relativity and Cosmology Seminar, UMass Dept of Math & Stats, Oct 2006



**POSTERS**

- *Multidimensional discrete compactons in nonlinear Schrödinger lattices*  
Sep 2015 · Conference on Waves, Spectral Theory & Applications, Princeton Univ.
- *Uncoupled EMP and linear Schrödinger models for a conformally Bianchi I scalar field cosmology*  
Jan 2009 · AWM Workshop for Women Graduate Students and Recent PhDs, Washington D.C.
- *A linear Schrödinger formulation of d-dim. Bianchi I cosmology and its relation to BEC*  
Sep 2008 · Conference on Non-linear Phenomena in Mathematical Physics, Toronto, Canada
- *A nonlinear Schrödinger type formulation of FLRW and Bianchi I scalar field cosmologies,*  
Jul 2007 · 18th International Conference on General Relativity and Gravitation, Sydney, Australia

**CONFERENCES** ( $\triangle$  presented)

- Feb 2021 · SIMIODE EXPO, Virtual Conference
- Sep 2019  $\triangle$  Second Annual Metro NExT Workshop, Courant Institute, NYC
- May 2019  $\triangle$  DS19: SIAM Conf. on App. of Dynamical Systems, Snowbird, UT
- Aug 2018  $\triangle$  Internat. Conf. on Nonlin. Phenomena in Bose Condensates & Optical Syst., Tashkent, Uzbekistan
- Apr 2018  $\triangle$  The Future of Higher Ed. – TLRC Spring 2018 Mini-Conference, SUNY Old Westbury
- Oct 2017 · Conference on Waves, Spectral Theory & Applications Part 2, Chapel Hill, NC.
- Aug 2017 · Science Education for New Civic Engagements and Responsibilities (SENCER), Stony Brook, NY
- Mar 2017 · Conf. on Financial Math., Farmingdale State College, Farmingdale, NY
- Aug 2016  $\triangle$  Workshop on the Future of Vibration Energy Transfer, Seattle, WA
- Aug 2016 · SIAM Conf. on Nonlinear Waves and Coherent Structures, Philadelphia, PA
- Jul 2016 · SIAM Annual Meeting, Boston, MA
- Jun 2016  $\triangle$  4th Internat. Conf. of Nonlinear Waves – Theory and Applications, Tsinghua Univ., Beijing, China
- Sep 2015  $\triangle$  Conference on Waves, Spectral Theory & Applications, Princeton, NJ.
- Jan 2015 · Joint Mathematics Meetings, San Antonio, TX
- Jun 2013  $\triangle$  3rd International Conference of Nonlinear Waves – Theory and Applications, Beijing, China
- Sep 2012  $\triangle$  AMS Eastern Section Meeting, Special Session on Geometric Evolution Equations, Rochester, NY
- Jul 2012  $\triangle$  AWM Workshop at SIAM Annual Meeting AWM Workshop, Minneapolis, MN
- Jun 2012 SIAM Conf. on Nonlinear Waves and Coherent Structures, Univ. of Wash., Seattle, WA
- Apr 2012 · Great Lakes Geometry Conference, Ohio State Univ, Columbus, OH
- Jan 2012 · Joint Mathematics Meetings, Boston, MA
- Jun 2011  $\triangle$  LT9: Lie Theory and its Applications to Physics, Varna, Bulgaria
- May 2011 · Conference on Connections in Geometry and Physics: GAP, Fields Institute, Toronto, ON
- Jan 2011  $\triangle$  Joint Mathematics Meetings, New Orleans
- Oct 2010 · Yamabe Memorial Symposium: Geom. and Low-Dim'l Topology 5<sup>th</sup> Biennial, UMN Twin Cities
- Sept 2010 · Symmetry, Separation, Super-integrability and Special Functions (S4) Conf., UMN Twin Cities
- Jan 2010 · Joint Mathematics Meetings, San Francisco
- Oct 2009  $\triangle$  Represent. Thy. and Math. Phys. Conf. in honor of Gregg Zuckerman's 60<sup>th</sup> birthday, Yale Univ., CT
- Oct 2009 · AMS Fall Central Sectional Meeting, Baylor Univ., Waco, TX
- Jun 2009  $\triangle$  LT8: Lie Theory and its Applications to Physics, Varna, Bulgaria
- Apr 2009 · AMS Spring Eastern Sectional Meeting, Worcester Polytechnic Institute, Worcester MA
- Jan 2009 · Joint Mathematics Meetings, Washington D.C.
- Jan 2009 · AWM Workshop for Women Graduate Students and Recent PhDs, JMM, Wash. D.C.
- Sep 2008  $\triangle$  Conference on Non-linear Phenomena in Mathematical Physics, Fields Institute, Toronto, Canada
- Aug 2008  $\triangle$  5th International Conference of Math. and Computing, Tech. Univ. of Plovdiv, Bulgaria
- Jun 2008 · Motives, Quantum Field Theory and Pseudodifferential Operators, Boston Univ.
- Jun 2008  $\triangle$  MSRI Workshop, *A Window Into Zeta and Modular Physics*, UC Berkeley
- Oct 2007 · AMS Fall Eastern Section Meeting, Rutgers, New Jersey
- Aug 2007  $\triangle$  4th International Conference of Math. and Computing, Tech. Univ. of Plovdiv, Bulgaria
- Jul 2007 · 18th Intern. Conf. on General Relativity and Gravitation, Sydney, Australia
- Jul 2007  $\triangle$  7th Eduardo Amaldi Conf. on Gravitational Waves, Australia
- Oct 2006 · AMS Fall Eastern Section Meeting, University of Connecticut