

## Short Biographical Sketch

Andrea R. Nahmod

### Education and Professional Preparation.

University of Buenos Aires, Argentina, Licenciada en Matemática, December 1985.

Yale University, New Haven, CT, Ph.D. in Mathematics, December 1991.

Yale University, New Haven, CT, Postdoctoral Associate, Spring 1992.

Macquarie University, Sydney, Australia, Research Postdoctoral Fellow, 1992-1994.

**Doctoral Advisor.** Ronald R. Coifman, Yale University.

### Professional Appointments.

*Professor*, University of Massachusetts, Amherst, MA, 2008 – present.

*Simons Professor*, Mathematical Science Research Institute, Berkeley, CA, Fall 2015.

*Simons Fellow and Visiting Professor*<sup>1</sup>, MIT, Cambridge, MA, 2013-2014.

*Sargent-Faull Fellow*, Radcliffe Institute for Advanced Study at Harvard U. 2009-2010.

*Professeur Invitée*, Université de Paris-Sud-XI, Orsay, France, May-June, 2005.

*Member*, Mathematical Science Research Institute, Berkeley, CA, Fall 2005.

*Visiting Scholar*<sup>2</sup>, Courant Institute, NYU, New York, NY, Fall 2005.

*Member*, Institute for Advanced Study, Princeton, NJ, 2003-2004.

*Associate Professor*, University of Massachusetts, Amherst, MA, 2002- 2008.

*Assistant Professor*, University of Massachusetts, Amherst, MA , 1998- 2002.

*Member*, Institute for Advanced Study, Princeton, 1997-1998.

*Member*, Mathematical Science Research Institute, Berkeley, CA, Fall 1997.

*Visiting Lecturer*, University of Texas at Austin, TX, 1994 -1997.

### Honors and Research Grant Awards.

- Outstanding Accomplishments in Research and Creative Activity Award, University of Massachusetts Amherst, 2016.
- Spotlight Scholar, University of Massachusetts Amherst, 2015-2016.
- Simons Professorship, Mathematical Sciences Research Institute, Berkeley, Fall 2015.
- Fellow of the American Mathematical Society (since 2015).
- Simons Fellow in Mathematics (Simons Foundation), AY 2013-2014.
- Radcliffe Summer Fellow (Radcliffe Institute, Harvard), 2013, 2014, 2017, 2018.
- Sargent-Faull Radcliffe Fellow (Radcliffe Institute, Harvard) AY 2009-2010<sup>3</sup>
- Radcliffe Institute for Advanced Study at Harvard U. *Exploratory Seminar* Award 2014<sup>4</sup>

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<sup>1</sup>Sabbatical Leave

<sup>2</sup>Sabbatical Leave.

<sup>3</sup>Staffilani (MIT) and Nahmod were awarded a cluster fellowships that year, an added distinction to the individual fellowship.

<sup>4</sup>Nahmod and Staffilani PIs, Oct. 30-Nov. 2, 2014.

- NSF-DMS Grant Support as PI:

NSF DMS Grant Award 1800852, July 2018 - 2021  
NSF DMS Grant Award 1463714, July 2015 - 2019<sup>5</sup>.  
NSF DMS Grant Award 1201443, July 2012 - 2016.  
NSF DMS Grant Award 0803160, July 2008 - 2012.  
NSF DMS Grant Award 0503542, July 2005 - 2009.  
NSF DMS Grant Award 0202139, July 2002 - 2005.  
NSF DMS Grant Award 9971159, July 1999 - 2002.

- NSF DMS *Conference Award* 1207829; co-PI; March 2012- 2014, 50K.
- ONR Award N00014-12-1-0581 PR:2PR07401-00; *Conference Award*; co-PI, (2012) 45K
- Yale University, *Conference Award*; co-PI; (2012) 50K.
- Others: AWM Travel Grant, 1995; Yale University Fellowship 1986-1991; Departmental Prize, Yale University, Dept. of Mathematics, 1986-1991; Fulbright Travel Grant, 1986-1990.
- Featured (one of 27 women mathematicians) in the *Notices of the American Mathematical Society* as part of Women's History Month issue, March 2018, Volume 65, Issue 03.

Selected by the American Mathematical Society Public Awareness Office to be profiled in special poster based on Notices issue above for MathFest, SIAM, AMS sectional meetings and to be displayed at the 2019 Joint Mathematical Meeting, Baltimore, MD (January 2019).

- Featured (one of 8 PIs) by the NSF's Office of Legislative and Public Affairs (OLPA) in *Medium's* issue on Hispanic/Latinx NSF-funded investigators for Hispanic Heritage Month (2018) <https://medium.com/@NSF/celebrating-scientists-23087207f433>.

### **Selected Talks.**

ICM-Satellite Conference Nonlinear Dispersive Equations, Florianopolis, Brazil. July 2018.

School and conference on nonlinear waves: stability vs turbulence, Georgia Tech, Atlanta, GA. May 2018.

Gibbs Measures for Nonlinear Dispersive Equations Workshop, Oberwolfach Institute of Mathematics, Germany, April 15-20, 2018.

Keynote Address 43rd Annual New York Regional Graduate Mathematics Conference., Syracuse University, NY. March 2018.

French-American Conference on Nonlinear Dispersive PDEs, Centre International de Rencontres Mathématiques (CIRM), Luminy, Marseille, France. June 2017

Wave Turbulence Workshop, American Institute of Mathematics (AIM), San Jose, CA. May, 2017

Plenary Speaker at Ohio River Analysis Meeting, Cincinnati, Ohio. March 2017

Golub Lectures, Gene Golub Summer School *Stochastic Differential Equations with Coherent Structures*, 2016 SIAM Nonlinear Waves Meeting, Philadelphia, PA, August, 2016.

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<sup>5</sup>FRG Collaborative Grant Award with Ionescu, Kenig, Klainerman and Staffilani

Nonlinear Waves 2016: June Conference, Institut des Haute Études Scientifiques (IHES), Bures-Sur-Yvette, France, June 20-24, 2016.

Nonlinear Evolution Problems Workshop, Oberwolfach Institute of Mathematics, Germany, May 29-June 3, 2016.

Analysis and Beyond: Celebrating Jean Bourgain's Work and Impact, Institute for Advanced Study, Princeton, NJ, May 21-24, 2016.

Rough Paths, Regularity Structures and Related Topics Workshop, Oberwolfach Institute of Mathematics, Germany, May 1-May 6, 2016.

Lectures on Randomness and long time dynamics in nonlinear evolution differential equations, Introductory Workshop, Mathematical Sciences Research Institute, Berkeley, CA, August 24-28, 2015.

Basque Center for Applied Mathematics (BCAM), Bilbao, Spain, March 2015.

Annual JMM-AMS Current Events Bulletin Lectures, San Antonio, TX, Jan. 2015.

Plenary Speaker, 33th SEARCDE Conference, Memphis, TN, Oct. 2014.

Dynamics in Geometric Dispersive Equations, Banff International Research Station, Canada, May 2014.

Recent Research and Future Directions International Conference in honor of C.E. Kenig, Univ. of Chicago, Sept, 2014.

NSF-CBMS Regional Research Conference, Manhattan, KS, June 2013.

Keynote Speaker at 16th Riviere-Fabes Symposium on Analysis and PDE, Univ. of Minnesota, April 2013.

Nonlinear Evolution Problems Workshop, Oberwolfach Institute of Mathematics, Germany, May 2012.

Evolution Equations Conference in honor to T. Tao's Nemmers Prize, Northwestern Univ. Evanston, IL May 2012.

Southern California Analysis & PDE Meeting at UCLA, Nov. 2010.

Asymptotics and singularities in nonlinear and geometric dispersive equations, Banff International Research Centre, Calgary, Canada, August 2008

Nonlinear Evolution Problems Workshop, Oberwolfach Institute of Mathematics, Germany; June 2008.

Keynote Speaker at Tenth New Mexico Analysis Seminar (NSF sponsored) October 11-12, 2007.

Nonlinear Waves and Dispersive Equations, Oberwolfach Institute of Mathematics, Germany; September, 2007.

Sixth Praire Analysis Workshop; Lawrence, KS, October 13-14, 2006.

*Plenary Address*, American Mathematical Society, Miami, FL, April 2006.

Nonlinear Evolution Problems Workshop, Oberwolfach Institute of Mathematics, Germany; May, 2005.

Nonlinear Waves and Dispersive Equations Workshop, Oberwolfach Institute of Mathematics, Germany; Oct., 2004.

Spectral theory and Harmonic Analysis Workshop, Oberwolfach Institute of Mathematics, Germany, July, 2004.

Nonlinear Waves Workshop, Fields Institute, Toronto, Canada, March, 2004. .

De Giorgi Research Center, Pisa, Italy; *Advanced Research Period in Harmonic Analysis*, July 2004.

Nonlinear Evolution Problems Workshop, Oberwolfach Institute of Mathematics, Germany; May 2003.

Harmonic Analysis and Partial Differential Equations, IAS/PCMI, Park City, Utah, July 2003.

Fifth Geometry and Topology Conference honoring E. Calabi; B. Lawson; Y-T. Siu and K. Uhlenbeck; Harvard University, May 2002.

Sixth International Conference on Harmonic Analysis and Partial Differential Equations, El Escorial (Spain), July, 2000.

#### **Organizational Activities (recent). :**

- (1) Co-Organizer of the FRG Workshops at MIT, Princeton, Chicago and UMass Amherst (2016-2018) (with A. Ionescu, C. Kenig, S. Klainerman and G. Staffilani— FRG co-PIs).
- (2) Jumbo Program *New Challenges in PDE: Deterministic Dynamics and Randomness in High and Infinite Dimensional Systems*, Fall 2015, at MSRI, Berkeley, CA.
- (3) Connections for Women Workshop, *New Challenges in PDE: Deterministic Dynamics and Randomness in High and Infinite Dimensional Systems*, Aug. 19–21, 2015, at MSRI, Berkeley, CA.
- (4) Research Workshop (Lead Org.) *New Challenges in PDE: Deterministic Dynamics and Randomness in High and Infinite Dimensional Systems*, October 19–30, 2015, at MSRI, Berkeley, CA.
- (5) Exploratory Workshop *Randomness and Long-Time Dynamics in Nonlinear Evolution Differential Equations*, Radcliffe Institute for Advanced Study at Harvard U. Oct. 31–Nov 2, 2014
- (6) *An Afternoon in Honor to Cora Sadosky: a conference in Harmonic Analysis and Operator Theory.*, UNM, April 4, 2014.
- (7) Conference *Challenges in Analysis, Geometry and Computation: high dimensional synthesis* in honor of Coifman, Jones and Rokhlin, Yale U., June 3-6, 2012. (Lead Org.).
- (8) AWM-40 years Celebration Special Session on *Nonlinear Wave Phenomena*, Brown U. Sept. 2011

## Doctoral Students.

- (1) Nikolaos Tzirakis; Ph.D. 2004, University of Massachusetts Amherst. Awarded a Clay Institute Liftoff Fellowship (Summer 2004) and IAS Princeton Member in 2004-2005. Postdoc. at Univ. of Toronto, Canada 2005-2007. Tenured Associate Professor, University of Illinois at Urbana-Champaign (Current).
- (2) Tadahiro (Choonhong) Oh, Ph.D. 2007, University of Massachusetts Amherst. Postdoc at Univ. of Toronto, Canada 2007-2010. Assistant Prof. at Princeton Univ., NJ. 2010–2013. Chancellor’s Fellow&Reader (Tenured), University of Edinburgh, UK (Current).
- (3) Viktor Grigoryan, Ph.D. 2008 , University of Massachusetts Amherst. Postdoc at Univ. of California at Santa Barbara, 2008-2012. Asst. Professor at Simmons College, MA (Current).
- (4) Allison Tanguay, Ph.D. 2012, University of Massachusetts Amherst. Postdoc at Univ. of Tübingen, Germany, 2012-2013 and Carleton College, MN 2013-2015. Smith College, Northampton, MA (Current).
- (5) Haitian Yue, Ph.D. 2018, University of Massachusetts Amherst. Postdoc at University of Southern California, 2018-2021.
- (6) Xueying Yu, Ph.D. 2018, University of Massachusetts Amherst. CLE Moore Instructor at MIT, 2018-2021.
- (7) Michael Boratko, Ph.D. 2018, University of Massachusetts Amherst. Postdoc at the College of Information and Computer Sciences at UMass Amherst (Prof. Andrew McCallum’s Lab on Information Extraction and Synthesis) 2018–2021.

## Postdoctoral Faculty.

- Dr. Siddhant Agrawal, University of Massachusetts, Amherst 2018- 2021.
- Dr. Taryn Flock, University of Massachusetts, Amherst 2017- 2020.
- Dr. Nathan Totz, University of Massachusetts, Amherst 2014- 2017.
- Dr. Nan Lu, University of Massachusetts, Amherst 2011- 2014.
- Dr. Arpad Benyi at University of Massachusetts, Amherst, MA; 2002-2004.
- Dr. Atanas Stefanov at University of Massachusetts, Amherst, MA; 2000-2002.
- Dr. Sanja Hukovic at University of Massachusetts, Amherst, MA; 1999-2001.

## Undergraduate Supervision.

- Scott Destromp, Research Undergraduate Experience (REU) Summer 2016.
- Michael Breeling, Capstone Research and Honors Thesis, Fall 2012 – Spring 2013.
- Domonic Mei, Capstone Research and Honors Thesis, Fall 2012 – Spring 2013.
- Nathan Senecal, Capstone Research and Honors Thesis, Spring 2011-Fall 2011.
- Nathan Senecal, Research Undergraduate Experience (REU), Summer 2011.
- Derek Wood, Capstone research and Honors Thesis, Fall 2011-Spring 2012.
- Derek Wood, Independent Study, Spring 2011.
- Adam Cardinal-Stakenas, Independent Study, Spring 2001 and REU Summer 2001.