

ELENA E. DORMIDONTOVA - CURRICULUM VITAE

PRESENT AFFILIATION:

The Institute for Materials Science and Physics Department
University of Connecticut
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EDUCATION AND SCIENTIFIC DEGREES:

- 1994 Ph. D in Physics and Mathematics, Physics Department, Moscow State University (Supervisor Prof. A.R. Khokhlov). The title of the thesis (theoretical study) is “Conformational Behavior of Complex Polymer Systems”
- 1991 B.A., M.S. in Physics, Physics Department Moscow State University

ACADEMIC POSITIONS:

- 2012-present Associate Professor
The Institute for Materials Science and Physics Department, University of Connecticut
- 2008-2012 Associate Professor
Department of Macromolecular Science & Engineering, Case Western Reserve University
- 2002-2008 Assistant Professor
Department of Macromolecular Science & Engineering, Case Western Reserve University
- 1999-2002 Postdoctoral Associate
Department of Chemistry, Chemical Engineering and Materials Science, University of Minnesota, USA
- 1996-1999 Postdoctoral Researcher
Department of Polymer Chemistry, University of Groningen,
- 1994-1996 Researcher
Physics Department Moscow State University, Chair of Polymer and Crystal Physics

AWARDS AND RECOGNITION

- 2007 – 2010 Climo Professorship. Case Western University School of Engineering
- 2004 – 2010 National Science Foundation (NSF) CAREER Award
- 2016 Directors Award for Faculty Excellence of the Polymer Program of the Institute of Materials Science, University of Connecticut

PROFESSIONAL ACTIVITIES:

Symposium organizer: Co-organizer (with T. Kuhl, UC Davis) *Biofunctional Architectures - Reversible Interactions and Surface Recognition* as a part of Colloids and Surfaces Division, Spring 2010 ACS meeting (San Francisco)

NIH Challenge grants reviewer 2009; NIH panel review (Gene and Drug Delivery Panel, 2008)
NSF CAREER panel review 2005; NSF NRT panel review 2014, NSF DMR Biomaterials panel review 2016
NSF, NIH proposal reviewer
NWO (Netherlands National Science Foundation), Katholieke Universiteit Leuven (Belgium) proposal reviewer

Reviewer for Biophysical Journal, Physical Review Letters, Nature Communications, Biomaterials, Biomacromolecules, ACS Nano, Soft Matter, Journal of American Chemical Society, Macromolecules, Journal of Chemical Physics, Journal of Polymer Science: Polymer Physics, Biomaterials Science, Journal of Physical Chemistry B, Polymer, Chemistry of Materials, Journal of Controlled Release, International Journal of Molecular Sciences, European Polymer Journal, Nanomedicine (Future Medicine), Chemical Communications, Physical Chemistry Chemical Physics, Macromolecular Rapid Communications, Nanomedicine: Nanotechnology, Biology, and Medicine, Journal of Molecular Modeling, ACS Macro Letters, Wiley books, CRC Press/Taylor & Francis Group books

RESEARCH INTERESTS KEY WORDS

Analytical theory and computer simulations (MC, MD, DPD) of macromolecules, polymers, surfactants, associating and supramolecular polymers, solution and surfaces properties, thermodynamics and kinetics of self-assembly, reversible interactions, hydrogen bonding, hydration, donor-acceptor, ligand-receptor interactions, micelles, nanoparticles, targeting, drug delivery, drug encapsulation and release, receptor clustering, bio-recognition, polyelectrolytes, gels, phase behavior, oil encapsulation, ordering, rheology, glass transition.

RESEARCH FUNDING

NSF (DMR) “Curvature-dependent polymer hydration in biomaterials” 2014-2017, role PI

Petroleum Research Fund by ACS “Computer modeling of threaded surfactant aggregates” 2016-2018, role: PI

NSF (CBET) “(NANO)²: gold nanoclusters in lipid nanodiscoidal bicelles as a potential nanodiagnostic platform: experiment and computer modeling” 2016-2019, role co-PI with Mu-Ping Nieh (Chemical & Biomolecular Engineering)

2016 Research Excellence Program Storrs (REP-Storrs) award “Scalable One-Pot Theranostic Nanodiscs Formulations for Cancer Targeting” 2016-2017, role: co-PI with Mu-Ping Nieh (Chemical & Biomolecular Engineering) and Sangamesh G. Kumbar, (Orthopedic Surgery, UConn Health)

2016 Level 1 Uconn Academic Plan grant “Next-Generation Materials Discovery” (Uconn-Storrs), member of “Polymer Brush Materials” team.

Some past funding:

NSF CAREER AWARD: “CAREER: Theoretical Modeling of Head-to-Tail Reversibly Associated Polymers in Solution and at Surfaces”, 2004-2010, role PI

NIH “Design of Targeting Enhancement for Drug Delivery, 2005-2008, role: PI

PUBLICATION AND PRESENTATION HIGHLIGHTS:

Hirsch Index (Web of Science) - 20.

48 published peer-reviewed articles cited 1382 times (citation rate 29)

The highest number of citations by a singly-authored paper 236

19 papers with ≥ 25 citations; 14 papers with ≥ 40 citations, 9 papers with ≥ 50 citations

9 non-peer-reviewed articles including one article in popular science press

35 invited lectures at academic institutions or national/international meetings

76 contributed lectures and 44 posters presented by E. Dormidontova or members of her group at national/international meetings

PEER-REVIEWED PUBLICATIONS

1. E.E. Dormidontova, A.Yu. Grosberg, A.R. Khokhlov
Intramolecular Phase Separation of a Polymer Chain with Mobile Ligands
Vysokomolek. Soedin. (Polymer Science - USSR) v34, 126, 1992.
2. E.E. Dormidontova, A.Yu. Grosberg, A.R. Khokhlov
Intramolecular Phase Separation of a Polymer Chain with Mobile Primary Structure
Makromol.Chem. Theory. Simul. v.1, 375, 1992
3. E.E. Dormidontova, I.Ya. Erukhimovich, A.R. Khokhlov
Microphase Separation in Poor Solvent Polyelectrolyte Solutions: Phase Diagram
Macromol.Theory Simul. v.3, 661-675, 1994
4. E.E. Dormidontova, I.Ya. Erukhimovich, A.R. Khokhlov
Phase Diagram for Microphase Separation Transition in Poor Solvent Polymer Solutions
Colloid Polym.Sci. v.272, 1486-1497, 1994
5. E.E. Dormidontova, I.Ya. Erukhimovich, A.R. Khokhlov
Nano-Structures in Poor Solvent Polymer Solutions Near Glass Transition Temperature
Macromol. Symp. v.106, 103-117, 1996
6. E.E. Dormidontova, A.R. Khokhlov
Complex Spherical Micelles in A-B-C Block Copolymer Melts
Macromolecules v.30, 1980-1991, 1997
7. K.B. Zeldovich, E.E Dormidontova, A.R. Khokhlov, T.A. Vilgis
Microphase Separation Transition for Polyelectrolyte Gels in Poor Solvents
J. Phys. II v.7, 627-635, 1997
8. A.R. Khokhlov, E.E. Dormidontova
Self-Assembly in Ion-containing Polymer Systems
Physics-USpekhi (Uspekhi Phisicheskix Nauk) (review) v.40,109-124, 1997
9. E.E. Dormidontova, G. ten Brinke
Phase Behaviour of Hydrogen Bonding Polymer-Oligomer Mixtures
Macromolecules v.31, 2649-2660, 1998

10. F.J. Esselink, E.E. Dormidontova, G. Hadziioannou
Evolution of Block Copolymer Micellar Size and Structure Evidenced with Cryo Electron Microscopy
Macromolecules v.31, 2925-2932, 1998
11. F.J. Esselink, E.E. Dormidontova, G. Hadziioannou
Redistribution of Block Copolymer Chains between Mixed Micelles in Solution
Macromolecules v.31, 4873-4878, 1998
12. E.E. Dormidontova, G. ten Brinke
Microphase Separation in Hydrogen Bonding Polymer/Surfactant Melts
Colloids and Surfaces A. v.147, 249-262, 1999
13. E.E. Dormidontova
Micellization Kinetics in Block Copolymer Solutions: Scaling Model
Macromolecules, v.32, 7630-7644, 1999
14. E.E. Dormidontova, G. ten Brinke
The Influence of Elongational Flow on Association Rate and Phase Behaviour of Binary Polymer Blends
Macromolecular Symposia, v.149, 23-30, 2000 (IF 0.913)
15. V. Grayer, E.E. Dormidontova, G. Hadziioannou, C. Tsitsilianis
A Comparative Experimental and Theoretical Study between Heteroarm Star and Diblock Copolymers in the Microphase Separated State
Macromolecules v. 33, 6330-6339, 2000
16. E.E. Dormidontova, G. ten Brinke
The Influence of Elongational Flow on Hydrogen Bond Formation and Stability of the Homogeneous Phase of Binary Hydrogen-Bonded Polymer Blends
Macromolecular Symposia v.158, 125-136, 2000
17. E.E. Dormidontova, G. ten Brinke
Association Behavior of Binary Polymer Mixtures under Elongational Flow
J Chem. Phys. v.113 (11), 4814-4826, 2000
18. E.E. Dormidontova, T.P. Lodge
The Order-Disorder Transition and the Disordered Micelle Phase in Sphere-Forming Block Copolymer Melts
Macromolecules v.34 (26), 9143-9155, 2001
19. E.E. Dormidontova
The Role of Competitive PEO-Water and Water-Water Hydrogen Bonding in Aqueous Solutions of PEO
Macromolecules v.35 (3), 987-1001, 2002

20. X. Wang, E.E. Dormidontova, T.P. Lodge
The Order-Disorder Transition and the Disordered Micelle Regime for Poly(ethylenepropylene-b-dimethylsiloxane) Spheres
Macromolecules v.35, 9687-9697, 2002
21. M.M. Feldstein, A. Roos, C. Chevallier, C. Creton, E. E. Dormidontova
Relation of Glass Transition Temperature to the Hydrogen Bonding Degree and Energy in Poly(N-Vinyl Pyrrolidone) Blends with Hydroxyl - Containing Plasticizers: 3. Analysis of Two Glass Transition Temperatures Featured for PVP Solutions in Liquid Poly(ethylene glycol) *Polymer*, 44(6), 1819-1834, 2003
22. C.-C. Chen, E.E. Dormidontova
Ring-Chain Equilibrium in Reversibly Associated Polymer Solutions: Monte Carlo Simulations
Macromolecules, 37 (10), 3905-3917, 2004
23. E.E. Dormidontova
The Influence of Terminal Groups on Phase Behavior and Properties of PEO in Aqueous Solutions
Macromolecules, 37, 7747-7761, 2004
24. C.-C .Chen, E.E. Dormidontova
Supramolecular Polymer Formation by Metal-Ligand Complexation: Monte Carlo Simulations and Analytical Modeling
JACS, 126, 14972-14978, 2004
25. C.-C .Chen, E.E. Dormidontova
Architectural and Structural Optimization of Protective Polymer Layer for Enhanced Targeting
Langmuir, 21, 5605-5615, 2005
26. Reidar Lund; Lutz Willner, Dieter Richter, E.E. Dormidontova
Equilibrium Chain Exchange Kinetics of Diblock Copolymer Micelles: Tuning and Logarithmic Relaxation
Macromolecules, 39, 4566-4575, 2006
27. C.-C .Chen, E.E. Dormidontova
Monte Carlo Simulations of End-Adsorption of Head-to-Tail Reversibly Associated Polymers
Macromolecules, 39, 9528-9538, 2006
28. M. Hagy, C.-C .Chen, E.E. Dormidontova
The Effect of Orientational Specificity of Complexation on the Behavior of Supramolecular Polymers: Theory and Simulation
Macromolecules, 40, 3408 – 3421, 2007
29. D. Sutton, S. Wang, N. Nasongkla, J. Gao, E.E. Dormidontova
Doxorubicin and β -lapachone Release and Interaction with Micelles Core Materials: Experiment and Modeling
Experimental Biology and Medicine, 232, 1090-1099, 2007

30. S. Wang, C.-C. Chen, E.E. Dormidontova
Reversible Association and Gelation in 3:1 Ligand-Metal Polymer Solutions
Soft Matter, 4, 2039–2053, 2008
31. M. Hagy, S. Wang, E. E. Dormidontova
Optimization of Functionalized Polymer Layers for Specific Targeting of Mobile Receptors on Cell Surfaces
Langmuir, 24, 13037-13047, 2008
32. S. Wang; E. E. Dormidontova,
Cis-Trans Switchable Metallo-Supramolecular Polymers
J. Chem. Phys.(Communication), 131, 061102, 2009
33. H. Djohari, E. E. Dormidontova
Kinetics of Nanoparticle Targeting by Dissipative Particle Dynamics Simulations
Biomacromolecules, 10, 3089–3097, 2009
34. S. Wang; E. E. Dormidontova,
Switchable Metallo-Supramolecular Networks Through *cis- trans-* Isomerization,
Soft Matter, 6, 1004 -1014, 2010
35. S. Wang; E. E. Dormidontova
Monte Carlo Simulations of Metallo-Supramolecular micelles
Macromolecular Rapid Communications, 31, 897 – 903, 2010
36. Z. Li, E.E. Dormidontova
Kinetics of Diblock Copolymer Micellization by Dissipative Particle Dynamics
Macromolecules, 43, 3521-3531, 2010
37. S. Wang; E. E. Dormidontova
Nanoparticle Design Optimization for Enhanced Targeting: Monte Carlo Simulations
Biomacromolecules, 11, 1785–1795, 2010
38. Z. Li, H. Djohari E.E. Dormidontova
Molecular Dynamics Simulations of Supramolecular Polymer Rheology
J. Chem. Phys., 133, 184904, 2010 - selected for the November 15, 2010 issue of Virtual Journal of Biological Physics Research and November 22, 2010 issue of Virtual Journal of Nanoscale Science & Technology
39. S. Wang; E. E. Dormidontova “Nanoparticle Targeting using Multivalent Ligands: Computer Modeling” *Soft Matter*, 2011, 7, 4435-4445, 2011
40. Z. Li, E. E. Dormidontova “Equilibrium Chain Exchange Kinetics in Block Copolymer Micelle Solutions by Dissipative Particle Dynamics Simulations” *Soft Matter*, 7, 4179-4188, 2011
41. S. Wang; E. E. Dormidontova “Selectivity of Ligand-Receptor Interactions between Nanoparticle and Cell Surfaces” *Physical Review Letters*, 109, 238102-4, 2012

42. A. V. Shibaev, M. V. Tamm, V. S. Molchanov, A. V. Rogachev, A. I. Kuklin, E. E. Dormidontova, O. E. Philippova “How a Viscoelastic Solution of Wormlike Micelles Transforms into a Microemulsion upon Absorption of Hydrocarbon: New Insight” *Langmuir*, 30, 3705–3714, 2014
43. Mikhail M. Feldstein, Kermen A. Bovaldinova, Eugenia V. Bermesheva, Alexander P. Moscalets, Elena E. Dormidontova, Valery Y. Grinberg, Alexei R. Khokhlov “Thermo-Switchable Pressure-Sensitive Adhesives Based on Poly(N-vinyl caprolactam) Non-Covalently Crosslinked by Poly(ethylene glycol)” *Macromolecules*, 47 (16), 5759-5767, 2014
44. Mikhail M. Feldstein, Elena E. Dormidontova, Alexei R. Khokhlov Pressure sensitive adhesives based on interpolymer complexes *Progress in Polymer Science* 42, 79–153, 2015
45. Udaya R. Dahal, Elena E. Dormidontova, Spontaneous insertion, helix formation and hydration of polyethylene oxide in carbon nanotubes, *Physical Review Letters*, chosen as “Editor’s suggestion”, *Physical Review Letters*, 117, 027801, 2016
46. Prhashanna Ammu, Elena E. Dormidontova Tadpole and Mixed Linear/Tadpole Micelles of Diblock Copolymers: Thermodynamics and Chain Exchange Kinetics *Macromolecules*, 50, 1740–1748, 2017
47. Udaya Dahal, Elena E. Dormidontova Polyethylene oxide hydration and hydrogen bonding in aqueous and isobutyric acid pure and binary solutions *Physical Chemistry Chemical Physics* 19, 9823-9832, 2017
48. Hari Sharma, Elena E. Dormidontova Lipid Nanodisc-Templated Self-Assembly of Gold Nanoparticles into Strings and Rings *ACS Nano* 11 (4), pp 3651–3661, 2017

POPULAR SCIENCE:

R. Lund, L. Willner, P. Lindner and D. Richter, C.-C .Chen, E.E. Dormidontova; Polymer Chains Queuing inside Micellar Cores *ILL Annual Report* 2005, p.48-49.

INVITED LECTURES:

1. Hydration of polyethylene oxide in nanostructures 252nd ACS National Meeting in Philadelphia, PA, August 21-25, 2016
2. Gold Nanoparticle – Lipid Nanodisk Self-Assembly: Insights from Computer Modeling (2015 Fall ACS meeting) Boston MA Aug.16-22, 2015
3. Supramolecular Micelle Networks: Computer Modeling of Equilibrium Properties and Dynamics (2015 Material Research Society Spring Meeting & Exhibit), San Francisco, Apr. 7, 2015
4. Computer Modeling of Nanoparticle Targeting to Enhance Selectivity, The European CLINAM & ETPN Summit (Clinical Nanomedicine & Targeted Medicine From Antibodies to Nanodrugs, Diagnostic Systems and Targeted Delivery), June 23-26, 2013 Basel, Switzerland

5. Polymer Science: from Phase Separation and Self-assembly to Nanotechnology, Leeds University, Leeds, UK, June 11, 2012
6. Polymer Physics of Macromolecular Phase Separation and Self-assembly Exxon Mobil, Corporate Research, Annandale, NJ, March 9, 2012
7. Theoretical Insights for Nanomedicine: Nanoparticle-Cell Surface Interactions and Nanoparticle Formation by Self-assembly, Department of Physics, Worcester Polytechnic Institute, Feb. 20, 2012
8. Nanoparticle-Cell Surface Interactions from the Physicist's Point of View, Department of Physics, Wayne State University, Detroit, MI, February 2, 2012
9. Macromolecular Physics: from Self-Assembly to Nanoparticle-Cell Surface Interactions, Department of Physics, Michigan Tech University, Houghton, MI, Dec. 13, 2012
10. Self-Assembly in Macromolecular Systems: Analytical Considerations and Computer Modeling Institute for Theoretical Physics, University of Utrecht, November 28, 2011
11. Dissipative Particle Dynamic Simulations of Kinetics of Block Copolymer Self-Assembly, ACS National Meeting, Boston, MA, August 22-26, 2010
12. Nanoparticle Targeting Design Optimization by Computer Simulations, Particles 2010, Lake Buena Vista, FL May 22-25, 2010
13. Design Optimization of Polymeric Nanoparticles for Specific Targeting, ACS National Meeting, San Francisco, CA, March 21-25, 2010
14. Computer Modeling of Stimuli-Responsive Metallo-Supramolecular Networks, presented at the International Symposium on Stimuli-Responsive Materials, University of Southern Mississippi, Hattiesburg, MS October 27 - 29, 2009
15. Computer Simulations of Self-Assembly of Metallo-Supramolecular Networks, Department of Physics, CWRU, Aug. 31, 2009
16. Modeling of Switchable Metallo-Supramolecular Polymers, Fall 2009 ACS meeting, Washington DC
17. Computer Simulations of Functionalized Polymer Surfaces for Specific Targeting, presented at Wayne State University, April 2009
18. Optimization of Nanoparticle Design for Enhanced Targeting presented at University of South Florida, June 2008
19. Theoretical Modeling of Equilibrium Metallo-Supramolecular Gels, at the Symposium on Metal-Containing and Metallo-Supramolecular Polymers and Materials, ACS meeting, August 2007, Boston, USA

20. Mathematical Modeling of Reversibly Associated Polymers, presented at University of Akron (Department of Polymer Engineering), April 2007
21. End-adsorption of head-to-tail associating polymers on surfaces, presented at University of Twente, February 2007
22. Reversibly Associating Polymers: Versatility of Properties and Complexity of Behavior, Presented at TU Delft, February 2007
23. Theoretical Aspects of Nanoparticle Targeting in Drug Delivery, presented at the Nanomedicine Symposium 2006, Dallas, Texas, Dec.11, 2006
24. Theoretical Modeling of Hydrogen Bonded and Metal-Ligand Associating Polymers presented at the APS meeting, Baltimore, USA, March 13-17, 2006
25. Theoretical and Computer Modeling of Reversibly Associated Polymers, presented at Georgia Institute of Technology (School of Polymer, Textile and Fiber Engineering) October 2005.
26. Theoretical Modeling of Phase Separated and Reversibly Associating Polymer Systems, presented at Specialty Minerals Inc., Bethlehem, PA, July 2005
27. Theoretical and Computer Modeling of Complex Polymer Systems: Associating Polymers and Ligand-Receptor Interactions, presented at John Carroll University (Chemistry Department), December 2004.
28. Computer Modeling of Targeting Enhancement for Gene/Drug Delivery, presented at the Rolduc Polymer Meeting, Kerkrade, The Netherlands, June 27-30, 2004.
29. Theoretical insights on reversible associations of polyethylene oxide in aqueous solutions and blends, presented at Max-Planck-Institute for Polymer Research, Mainz, Germany, June 4, 2004
30. Micellization Kinetics in Diblock Copolymer Solutions, presented at the University of Juelich, Germany, July 4, 2004
31. Hydrogen Bonding in Aqueous Solutions of PEO: Theoretical Insights, presented at the APS meeting, Montreal, Canada, March 22-26, 2004
32. Reversibly Associated Polymers: Theoretical Insights, presented at the University of Akron (Physics Department) September 25, 2003.
33. Theoretical and computer modeling of reversibly associated polymers: new insight, presented at Eindhoven University of Technology, The Netherlands, June 2, 2003.
34. Theoretical insights on the behavior of reversibly associated polymers, presented at Department of Chemical Engineering, K. U. Leuven University, Leuven, Belgium, May 21, 2003

35. Theoretical insights on reversibly associating polymers: the example of poly (ethylene oxide/glycol) in aqueous solutions and blends with PVP, presented at ESPCI, Paris, France, May 22, 2003

CONTRIBUTED ORAL PRESENTATIONS AND POSTERS

76 contributed lectures and 44 posters presented by E. Dormidontova or members of her group at the national/international meetings.

Recent presentations

1. Computer Modeling of diblock copolymer self-assembly in solution: from dynamics to hydration, the 80th Prague Meeting on Macromolecules “Self-Assembly in the World of Polymers”, July 10-14, 2016
2. Lipid Self-Assembly and Interactions with charged macromolecules, 11th International Symposium on Polyelectrolytes, June 27-30, 2016, Moscow, Russia
3. Polyethylene oxide hydration in grafted layers, March 2016 American Physical Society
4. Gold nanoparticle encapsulation into a mixed lipid nanodisk: molecular dynamics simulations, March 2016 National Meeting, American Physical Society
5. Molecular dynamics simulations of poly (ethylene oxide) hydration and conformation in solutions, March 2016 National Meeting, American Physical Society
6. How nanoparticle design affects targeting selectivity: Insights from computer modeling, August 2015 National Meeting, American Chemical Society
7. Computer simulation of lipid/polymer nanoparticle self-assembly and targeting, November 2015, Applied Mechanics Symposium (UConn)
8. Gold Nanoparticle - Lipid Self-Assembly and Interactions: Insights from Computer Modeling, April 2015, Material Research Society
9. Interaction of Biofunctionalized Nanoparticles with Receptors on Cell Surfaces: MC Simulations, March 2015 National Meeting, American Physical Society
10. Hierarchical assembly of block copolymer micelles into reversible networks: MC simulations, March 2015 National Meeting, American Physical Society
11. How does Nanoparticle Design Affect Targeting Selectivity: Computer Modeling” Tech Connect World Innovation Conference and Expo, Washington, DC, 2014
12. Computer Modeling of Complex Block Copolymer Micelles with Metal-Ligand Self-Assembly Tech Connect World Innovation Conference and Expo, Washington, DC, 2014

THESIS ADVISOR AND POSTGRADUATE SCHOLAR SPONSOR:

Graduate students:

Udaya Raj Dahal (PhD student, Uconn Department of Physics). 2014-

Hari Sharma (PhD student, Uconn Department of Physics) 2015-

Michael Richter (PhD student, Uconn Department of Physics). 2014-

Shihu Wang (PhD student, CWRU) graduated August, 2010, currently at Dow Corning

Zhenlong Li (PhD student, CWRU) graduated May, 2011 currently at Weill Cornell Medical College

Norased Nasongkla (joint PhD student, CWRU) graduated August 2006

Undergraduate students:

Matthew Hagy (undergraduate student, CWRU) graduated May 2008

Jessica Kingsberg undergraduate student, CWRU) graduated 2006

Postdoctoral Scholars:

Prhashanna Ammu (Uconn, IMS) 2016-

Zilu Wang (UConn, IMS) 2013-2015

Hadrian Djohari (CWRU) 2008-2010

Chun-Chung Chen (CWRU) 2003-2006

TEACHING EXPERIENCE SUMMARY

Undergraduate level:

Statistical and Thermal Physics (3 years, at UConn)

Physical Chemistry for Engineers (5 years, at CWRU)

Undergraduate research courses: freshman research, undergraduate research for juniors/seniors, undergraduate senior project (6 years, at CWRU).

Graduate level:

Introduction to Soft Matter Physics (2 years, at Uconn)

Methods of Theoretical Physics I (1 year, at UConn)

Polymer Properties (1 year, at UConn)

Polymer Physics (1 year, at Uconn)

Polymer Physical Chemistry (1 year, at Uconn) Fall 2016

Macromolecular Physics, and Polymer Physics (9 years, at CWRU),

Polymer plus Advanced Physical Chemistry (2 years at CWRU)

Independent graduate and dissertation research (8 years at CWRU, 3 years at Uconn)

UNIVERSITY SERVICE

Physics Department at University of Connecticut:

- Chair of Diversity and Multiculturalism faculty committee 2017- (member 2016-)
- Member of nuclear/high energy theory faculty Search Committee 2016-2017
- Member of astronomy faculty Search Committee 2015-2016
- Member of faculty Search Committee 2014-2015
- Member of Departmental Computer Committee 2014 –
- Member of oral proposal and dissertation proposal committees

Polymer Program at the Institute of Materials Science, University of Connecticut:

- Member of curriculum committee of Polymer Program 2016-
- Seminar organizer Fall 2013 and Spring 2014
- Member of 9 PhD (defense or prospectus) faculty committees

Case Western Reserve University:

- Advisory Committee on Research Computing, High Performance Computing Cluster, Case Western Reserve University, 2009-2011
- Search committee member for Ohio Research Scholar endowed chair and junior faculty position in surface and interface-related physics, Case Western Reserve University, 2009;
- Active participant and contributor to the Case Western Reserve University (undergraduate research) SOURCE program.

Case Western Reserve School of Engineering:

- Research committee 2008-10 (Chairperson 2009-2010),
- Graduate committee 2004-2005;
- Smith-Thenault (undergraduate fellowship) committee 2003-2005

Department of Macromolecular Science and Engineering at CWRU:

- Macro Seminar organizer Fall 2007;
- Graduate committee 2002-present;
- Web design committee 2004-2005
- Member of 13 Ph. D defense committees and 28 Ph.D. oral proposal committees