**ELISA RIEDO**

Professor of Chemical & Biomolecular Engineering

NYU - Tandon School of Engineering

elisa.riedo@nyu.edu

[*www.picoForceLab.org*](http://www.picoForceLab.org)

**I. Earned Degrees**

B.S., Physics, 1995, *Summa cum Laude****,*** University of Milano, Italy

Ph.D., Physics, 2000, University of Milano, Italy

**II. Employment History**

Sept 2018 – present: Tenured Full Professor, Chemical & Biomolecular Engineering, NYU - Tandon School of Engineering

Sept 2015 – 2018: Professor of Nanoscience and Founding Member of the CUNY Advanced Science Research Center (ASRC), NYC (USA)

Sept 2015 – 2018: Director of Surface Science Facility CUNY ASRC

Sept 2015 – 2018: Tenured Full Professor, Physics, City College of New York (USA)

2015: Tenured Full Professor, School of Physics, Georgia Tech (USA)

2009 – 2015: Associate Professor (with tenure), School of Physics, Georgia Tech (USA)

2006 – present: Adjunct Professor, School of Chemistry and Biochemistry, Georgia Tech (USA)

2003 – 2009: Assistant Professor, School of Physics, Georgia Tech (USA)

1999 – 2003: Post Doctoral Fellow, École Polytechnique Fédérale Lausanne (EPFL) (Switzerland)

1998 – 1999: Research Assistant, European Synchrotron Research Facility (ESRF) (France)

Feb – Jun 1998: Research Assistant, TASC – INFM labs, Trieste (Italy)

June 1998: Visiting Research Assistant, Forshungzentrum of Jülich (Germany)

1996 – 1998: Research Assistant, CoreCom (Politecnico of Milan and Pirelli) (Italy)

1995: Research stage at CERN, Geneva, (Switzerland)

**III. Refereed Publications**

**Ten Most Significant Publications –– \* indicates contact author**

1. Y. Gao, T. Cao, F. Cellini, C. Berger, W. Heer, E. Riedo**\***, A. Bongiorno “Ultra-hard carbon film from epitaxial two-layer graphene” **Nature Nanotechnology** (2018) <http://dx.doi.org/10.1038/s41565-017-0023-9>
2. E. Albisetti, D. Petti, M. Pancaldi, M. Madami, S. Tacchi, J. Curtis, W.P. King, A. Papp, G. Csaba, W.Porod, P. Vavassori, E. Riedo**\***, R. Bertacco, “Nanopatterning reconfigurable magnetic landscapes via thermally assisted scanning probe lithography” **Nature Nanotechnology,** 11, 545–551(2016) (Cover article)
3. Y. Gao, S. Zhou, S. Kim, H.-C. Chiu, D. Nélias, C. Berger, W. de Heer, L. Polloni, R. Sordan, A. Bongiorno and E. Riedo**\***, “Elastic coupling between layers in two-dimensional materials”, **Nature Materials** 14, 714–721 (2015)
4. Abdelghani Laraoui, Halley Aycock-Rizzo, Yang Gao, Xi Lu, Elisa Riedo**\***, Carlos Meriles, “Imaging thermal conductivity with nanoscale resolution using a scanning spin probe” **Nature Communications** 6, 8954, (2015)
5. Ricardo Garcia, Armin Knoll, and Elisa Riedo**\*,** “Advanced Scanning Probe Lithography”, **Nature Nanotechnology**, 9, 577 (2014). **> 140 citations**
6. D. Ortiz-Young, H. C. Chiu, S. Kim, K. Voitchovsky and E. Riedo**\*** “The interplay between apparent viscosity and wettability in nanoconfined water", **Nature Communications**, 4, 2482, (2013)
7. Suenne Kim, Si Zhou, Yike Hu, Muge Acik, Yves J. Chabal, Claire Berger, Walt de Heer, Angelo Bongiorno, and Elisa Riedo**\*** “Room Temperature Metastability of Multilayer Epitaxial Graphene Oxide”, **Nature Materials**, 11, 544, (2012). **> 240 citations**
8. Z. Q. Wei, D. B. Wang, S. Kim, S. Y. Kim, Y. K. Hu, M. Yakes, A. R. Laracuente, Z. T. Dai, S. R. Marder, C. Berger, W. P. King, W. A. de Heer, P. E. Sheehan, and E. Riedo**\***, "Nanoscale Tunable Reduction of Graphene Oxide for Graphene Electronics," **Science**, 328, 1373-1376, (2010). **> 520 citations** (Highlighted by Nature Chemistry doi:10.1038/nchem.769)
9. M. Lucas, X. Zhang, I. Palaci, C. Klinke, E. Tosatti, and E. Riedo**\*** “Hindered rolling and friction anisotropy in supported carbon nanotubes” **Nature Materials** 8, 876 (2009).
10. J.H. Song and X.D. Wang and E. Riedo**\*** and Z.L. Wang, “Elastic Property of Vertically Aligned Nanowires/Nanotubes”, **Nano Letters** 12, 1954 (2005). **> 320 citations**

**Complete List of Publications** ( > 5100 citations, h-index = 32)

**\* indicates contact author**

1. Y. Gao, T. Cao, F. Cellini, C. Berger, W. Heer, E. Tosatti, E. Riedo**\***, A. Bongiorno “Ultra-hard carbon film from epitaxial two-layer graphene” **Nature Nanotechnology** 13, 133–138 (2018), doi:10.1038/s41565-017-0023-9
2. Francesco Lavini, Annalisa Calò, Yang Gao, Edoardo Albisetti, Tai-De Li, Tengfei Cao, Guoqing Li, Linyou Cao, Carmela Aruta and Elisa Riedo\* “Friction and work function oscillatory behavior for an even and odd number of layers in polycrystalline MoS2” **Nanoscale** 10, 8304-8312 (2018), doi: 10.1039/C8NR00238J
3. Edoardo Albisetti, Annalisa Calò, Martin Spieser, Armin W. Knoll, Elisa Riedo, Daniela Petti, “Stabilization and control of topological magnetic solitons via nanoscale patterning of the exchange bias”, **Applied Physics Letters**, in press
4. Edoardo Albisetti, Annalisa Calò, Xiaouri Zheng, Daniela Petti, Elisa Riedo, Riccardo Bertacco, “Nanoscale spin-wave circuits based on engineered reconfigurable spin-textures”, **Communications Physics Nature Research**, accepted
5. J. Narayan, S. Gupta, A. Bhaumik, R. Sachan, F. Cellini, E. Riedo, “Q-carbon harder than diamond”, **MRS Communications**, 1-9 (2018), <https://doi.org/10.1557/mrc.2018.35>
6. E. Albisetti, D. Petti, Annalisa Calo, Xiaorui Zheng, R. Bertacco, E. Riedo, "Thermal scanning probe lithography: from spintronics to biomedical applications", **Proc. SPIE** 10584, Novel Patterning Technologies 2018, 1058405 (2018); doi: 10.1117/12.2301253; https://doi.org/10.1117/12.2301253
7. J. R. Mendelson, T. D. Li, E. Riedo, D. Goldman, “Functional Significance of the Derived Morphology of Ventral-Scale Nanostructure in the Sidewinder”, **Integrative and Comparative Biology** 57, E348-E348 (2017)
8. E. Albisetti, D. Petti, M. Madami, S. Tacchi, P. Vavassori, E. Riedo, R. Bertacco “Nanopatterning spin-textures: A route to reconfigurable magnonics” **AIP Advances**, (7), 5, 10.1063/1.4973387 (2017)
9. E. Albisetti, D. Petti, M. Pancaldi, M. Madami, S. Tacchi, J. Curtis, W.P. King, A. Papp, G. Csaba, W.Porod, P. Vavassori, E. Riedo\*, R. Bertacco, “Nanopatterning reconfigurable magnetic landscapes via thermally assisted scanning probe lithography” **Nature Nanotechnology,** 11, 545–551(2016) doi:10.1038/nnano.2016.25 (Cover article) (Highlighted by News Media)
10. R. V. Ulijn and E. Riedo “Learning to think systems” **Nature Nanotechnology**, 11 (9), 824-824 (2016)
11. Alper Gurarslan, Shuping Jiao, Tai‐De Li, Guoqing Li, Yiling Yu, Yang Gao, Elisa Riedo, Zhiping Xu, Linyou Cao, “Van der Waals Force Isolation of Monolayer MoS2” **Advanced Materials**, (2016) doi: 10.1002/adma.201601581
12. Carroll, Keith; Wolf, Heiko; Knoll, Armin; Curtis, Jennifer; Zhang, Yadong; Marder, Seth; Riedo, Elisa; Duerig, Urs "Understanding how Charged Nanoparticles Electrostatically Assemble and Distribute in 1-D" **Langmuir** (2016) doi: 10.1021/acs.langmuir.6b03471
13. Albisetti, Edoardo; Carroll, Keith; Xi, Lu; Curtis, Jennifer; Petti, Daniela; Bertacco, Riccardo; Riedo, Elisa\*, "Thermochemical scanning probe lithography of protein gradients at the nanoscale" **Nanotechnology**, 27 (31), 315302 (2016)
14. Yang Gao, Si Zhou, Suenne Kim, Hsian-Chih Chiu, Daniel Nélias, Claire Berger, Walt de Heer, Laura Polloni, Roman Sordan, Angelo Bongiorno and Elisa Riedo\*, “Elastic coupling between layers in two-dimensional materials”, **Nature Materials** 14, 714–721 (2015), DOI: 10.1038/nmat4322
15. Abdelghani Laraoui, Halley Aycock-Rizzo, Yang Gao, Xi Lu, Elisa Riedo\*, Carlos Meriles, “Imaging thermal conductivity with nanoscale resolution using a scanning spin probe” **Nature Communications** 6, 8954, (2015) doi:10.1038/ncomms9954
16. Ricardo Garcia, Armin Knoll, and Elisa Riedo\* “Advanced Scanning Probe Lithography”, **Nature Nanotechnology**, 9, 577 (2014) DOI: 10.1038/NNANO.2014.157. **> 210 citations**
17. Robert Szoszkiewicz and Elisa Riedo\* “Sliding Charges” *News & Views*, **Nature Materials**, 13, 666–668 (2014) DOI: 10.1038/nmat4020.
18. Hsiang-Chih Chiu, Tai-De Li, Deborah Ortiz-Young, Elisa Riedo\*, “Nanorheology by atomic force microscopy “, **Review of Scientific Instruments,** 85 (12), 123707 (2014)
19. Hsiang-Chih Chiu, Kyung Duk Koh, Marina Evich, Annie L. Lesiak, Markus W. Germann, Angelo Bongiorno, Elisa Riedo\* and Francesca Storici “How RNA intrusions change DNA structure and elastic properties”, **Nanoscale** 6 (17), 10009-10017(2014) DOI:10.1039/C4NR01794C.
20. Keith M. Carroll, Maitri Desai, Anthony J. Giordano, Jan Scrimgeour, William P. King, Elisa Riedo, and Jennifer E. Curtis “Speed Dependence of Thermochemical Nanolithography for Gray-Scale Patterning”, in press in **ChemPhysChem**, (2014) DOI: 10.1002/cphc.201402168.
21. Si Zhou, Suenne Kim, Emiliano Di Gennaro, Yike Hu, Cheng Gong, Chien-Yuan Chang, Xi Lu, Hsiang-Chih Chiu, Claire Berger, Walt de Heer, Elisa Riedo,Yves J. Chabal, Carmela Aruta, and Angelo Bongiorno “Film Structure of Epitaxial Graphene Oxide on SiC: Insight on the Relationship Between Interlayer Spacing, Water Content, and Intralayer Structure”, **Advanced Materials Interfaces**, DOI: 10.1002/admi.201300106 (2014).
22. Keith M. Carroll, Xi Lu, Suenne Kim, Yang Gao, Hoe-Joon Kim, Suhas Somnath, Laura Polloni, Roman Sordan, William P. King, Jennifer E. Curtis, Elisa Riedo\* “Parallelization of Thermochemical Nanolithography”, **Nanoscale** 6 (3), 1299 – 1304, (2014).
23. Deborah Ortiz-Young, Hsiang Chih Chiu, Suenne Kim, Kislon Voitchovsky and Elisa Riedo\* “The interplay between apparent viscosity and wettability in nanoconfined water", **Nature Communications**, 4, 2482, (2013) DOI: 10.1038/ncomms3482.
24. K. M. Carroll, A. J. Giordano, D. Wang, V. K. Kodali, J. Scrimgeour, W. P. King, S. R. Marder, E. Riedo**,** andJ. E. Curtis, “Fabricating nanoscale chemical gradients with thermochemical nanolithography,” **Langmuir**, 29 (27), 8675–8682 (2013).
25. Suenne Kim, Si Zhou, Yike Hu, Muge Acik, Yves J. Chabal, Claire Berger, Walt de Heer, Angelo Bongiorno, and Elisa Riedo\* “Room Temperature Metastability of Multilayer Epitaxial Graphene Oxide”, **Nature Materials**, 11, 544, (2012). **> 240 citations**
26. Hsiang-Chih Chiu, Sedat Dogan, Mirjam Volkmann, Christian Klinke, and Elisa Riedo\* “Adhesion and size dependent friction anisotropy in boron nitride nanotubes”, **Nanotechnology**, 23, 455706 (2012).
27. H.-C. Chiu, S. Kim, C. Klinke, and E. Riedo\*, “Morphology dependence of radial elasticity in multiwalled boron nitride nanotubes”, **Appl. Phys. Lett**. 101, 103109 (2012).
28. Marcel Lucas, and Elisa Riedo\*, Invited Review Article: “Combining scanning probe microscopy with optical spectroscopy for applications in biology and materials science”, **Rev. Sci. Instrum**. 83, 061101 (2012) (Cover Article).
29. Hsian-Chih Chiu, Beate Ritz, Suenne Kim, Erio Tosatti, Christian Klinke, Elisa Riedo\* “Sliding on a Nanotube: Interplay of Friction, Deformations and Structure” **Adv. Mat**., 24, 2879 (2012). (Cover Article)
30. Suenne Kim, Yaser Bastani, Haidong Lu, William P. King, Seth Marder, Kenneth H. Sandhage, Alexei Gruverman, Elisa Riedo\*, and Nazanin Bassiri-Gharb “Direct fabrication of arbitrary-shaped ferroelectric nanostructures on plastic, glass and silicon substrates”, **Adv. Mat**., 23, 3786–3790, (2011). (Cover Article)
31. Z. Q. Wei, D. B. Wang, S. Kim, S. Y. Kim, Y. K. Hu, M. K. Yakes, A. R. Laracuente, Z. T. Dai, S. R. Marder, C. Berger, W. P. King, W. A. de Heer, P. E. Sheehan, and E. Riedo\*, "Nanoscale Tunable Reduction of Graphene Oxide for Graphene Electronics," **Science**, 328, 1373-1376, (2010). **> 490 citations**
32. Wen Chen, Gozde Guler, Elizabeth Kuruvilla, Gary B. Schuster, Hsiang-Chih Chiu, Elisa Riedo, “Development of Self-Organizing, Self-Directing Molecular Nanowires: Synthesis and Characterization of Conjoined DNA-2,5-Bis(2-thienyl)pyrrole Oligomers”, **Macromolecule**s, 43, 4032, (2010).
33. M. Lucas, Z. L. Wang, and E. Riedo\*, “Growth direction and morphology of ZnO nanobelts revealed by combining in situ atomic force microscopy and polarized Raman spectroscopy” **Phys. Rev. B** 81, 045415 (2010).
34. D. B. Wang, S. Kim, W. D. Underwood, Lee, W. P. King, R. Marder, E. Riedo\*, “Direct Writing and characterization of PPV nanostructures”, **Appl. Phys. Lett.** 95, 233108 (2009).
35. Marcel Lucas, Xiaohua Zhang, Ismael Palaci, Christian Klinke, Erio Tosatti, and Elisa Riedo\* “Hindered rolling and friction anisotropy in supported carbon nanotubes” **Nature Materials** 8, 876 (2009). Featured in News & Views of Nature Materials.
36. D. Wang, V. Kodali, W. D. Underwood, J. E. Jarvholm, T. Odaka, S. C. Jones, M. Rumi, Z. Dai, W. P. King, S. R. Marder, J. E. Curtis, and E. Riedo\* “Thermochemical nanolithography of multi-functional templates for assembling nano-objects” **Adv. Funct. Mat**. 19, 3696 (2009) (Cover Article).
37. M. Lucas, Z.L. Wang, and E. Riedo\*, “Combined polarized Raman and atomic force microscopy: In situ study of point defects and mechanical properties in individual ZnO nanobelts” **Appl. Phys. Lett**. 95, 051904 (2009).
38. E. Gnecco, E. Riedo\*, W.P. King, S.R. Marder and R. Szoszkiewicz, “Linear ripples and traveling circular ripples produced on polymers by thermal AFM probes” **Phys. Rev. B** 79, 235421 (2009).
39. M. Lucas, K. Gall, and E. Riedo\*, “Tip size effects on AFM nanoindentation of a gold single crystal” **J. Appl. Phys.** 104, 113515 (2008).
40. M. Lucas, A. M. Leach, M. T. McDowell, S. E. Hunyadi, K. Gall, C. J. Murphy, and E. Riedo\*, “Plastic deformation of pentagonal silver nanowires: Comparison between AFM nanoindentation and atomistic simulations” **Phys. Rev. B** 77, 245420 (2008).
41. T.-D. Li, and E. Riedo\* “Nonlinear viscoelastic dynamics of nanoconfined wetting liquids”, **Phys. Rev. Lett.** 100**,** 106102 (2008) (Highlighted by News Media).
42. D. B. Wang, M. Lucas, R. Szoszkiewicz, E. Riedo\*, T. Okada, S. C. Jones, S. R. Marder, Lee, W. P. King, “Local wettability modification by thermochemical nanolithography with write-read-overwrite capability”, **Appl. Phys. Lett.** 91, 243104 (2007) (Highlighted by Virtual Journal of Nanoscale Science & Technology).
43. R. Szoszkiewicz, T. Okada, S. C. Jones, T.-D. Li, W. P. King, S. R. Marder and E. Riedo\* “High-speed, thermochemical nanolithography with sub-15 nm feature size”, **Nano Letters** 7, 1064 (2007). (Highlighted by News Media). **> 150 citations**
44. M. Lucas, W. Mai, J.H. Song, Z.L. Wang and E. Riedo\* “Aspect ratio dependence of the elastic properties of ZnO nanobelts”, **Nano Letters** 7, 1314 (2007). **> 120 citations**
45. T.-D. Li, J. Gao, R. Szoszkiewicz, U. Landman and E. Riedo\* “Structured and viscous water in subnanometer gaps”, **Phys. Rev. B** 75, 115415 (2007). (Highlighted by News Media). **> 280 citations**
46. S. Yoo, W. J. Potscavage Jr., B. Domercq, S.-H. Han, T.-D. Li, S. C. Jones, R. Szoszkiewicz, D. Levi, E. Riedo, S. R. Marder, B. Kippelen, “Analysis of improved photovoltaic properties of pentacene/C60 organic solar cells: Effects of excitons blocking layer thickness and thermal annealing”, **Solid-State Electronics** 51, 1367 (2007). **> 110 citations**
47. M. Lucas, W. Mai, J.H. Song, Z.L. Wang and E. Riedo\* “Size dependence of the mechanical properties of ZnO nanobelts”, **Philos. Mag.** 87, 2135 (2007).
48. E. Gnecco, E. Riedo, R. Bennewitz, E. Meyer, H. Brune, “Thermally activated phenomena in nanoscopic sliding friction” **TriboTest** 12, 2169 (2006).
49. L. Sirghi, R. Szoszkiewicz and E. Riedo, “Volume of Nanoscopic Menisci”, **Langmuir** 22, 1093 (2006). **> 105 citations**
50. R. Szoszkiewicz and E. Riedo\*, “Nucleation time of nanoscale water bridges”, **Phys. Rev. Lett.** 85, 135502 (2005). > **100 citations**
51. J.H. Song and X.D. Wang and E. Riedo\* and Z.L. Wang, “Elastic Property of Vertically Aligned Nanowires/Nanotubes”, **Nano Letters** 12, 1954 (2005). **> 315 citations**
52. R. Szoszkiewicz and E. Riedo\*, “Friction forces as a local probe of Phase transitions”, **App. Phys. Lett**. 87, 033105 (2005). (Highlighted by News Media).
53. J.H. Song and X.D. Wang and E. Riedo and Z.L. Wang, “Systematic study on experimental conditions for large-scale growth of aligned ZnO nanwires on nitrides”, **J. Phys. Chem. B** 109, 9869 (2005). **> 165 citations**
54. I. Palaci, S. Fedrigo, H. Brune, C. Klinke, M. Chen and E. Riedo\*, “Radial Elasticity of Multiwalled Carbon Nanotubes”, **Phys. Rev. Lett.** 94, 175502, (2005). (Highlighted by News Media). **> 170 citations**
55. E. Riedo\*, I. Palaci, C. Boragno, H. Brune, ¨2/3 power law dependence of Capillary Force in Nanoscopic Friction¨, **J. Phys. Chem. B** 108, 5324 (2004).
56. E. Riedo\* and E. Gnecco, “Thermally activated effects in Nanofriction”, **Nanotechnology** 15 S288 (2004).
57. E. Riedo, H. Brune, ¨Nano-Friction and Young Modulus in Hard Coatings¨, **Appl. Phys. Lett.** 83, 1986 (2003).
58. E. Riedo, E. Gnecco, R. Bennewitz, E. Meyer, H. Brune, “Interaction Potential and Attempt Frequency Governing Sliding Friction”, **Phys. Rev. Lett.** 91, 084502, (2003). (Highlighted by News Media). **> 235 citations**
59. E. Riedo, F. Levy, H. Brune, ¨Kinetics of capillary condensation in nanoscopic sliding friction¨, **Phys. Rev. Lett.** 88, 185505-4, (2002). (Highlighted by News Media). **> 235 citations**
60. R. Haerle, E. Riedo, A. Pasquarello, A. Baldereschi ¨sp2/sp3 hybridization ratio in amorphous carbon from C1s core-level shifts: X-ray photoelectron spectroscopy and first-principles calculation¨, **Phys. Rev. B.** 65, 045101, (2002). **> 260 citations**
61. S. Abbet, E. Riedo, H. Brune, U. Heiz, A. M. Ferrari, L. Giordano, G. Pacchioni, ¨Identification of defect sites on MgO(100) thin films by decoration with Pd atoms and studying CO adsorption properties", **J. Am. Chem. Soc**. 123(25), 6172, (2001). **> 115 citations**
62. E. Riedo, J. Chevrier, F. Comin, H. Brune, ¨Nanotribology of carbon based thin films: the influence of film structure and surface morphology¨, **Surf. Sci**. 477/1, 25, (2001).
63. C. Aruta, J. Zegenhagen, B. Cowie, D. Luebbert, T. Baumbach, G. Pasquini, G. Balestrino, P. G. Medaglia, F. Ricci, E. Riedo, L. Ortega, ¨Structure of superconducting [BaCuOx]2/[CaCuO2]n superlattices on SrTiO3(0001) investigated by X-ray scattering¨, **Phys. Stat. Sol. (A)** 183, 353, (2001).
64. E. Riedo, F. Comin, J. Chevrier, A. M. Bonnot, ¨Composition and chemical bonding of pulsed laser deposited carbon nitride thin films¨, **J. Appl. Phys**. 88, 4365, (2000).
65. E. Riedo, F. Comin, J. Chevrier, F. Schmithusen, S. Decossas, M. Sancrotti, “Structural properties and surface morphology of amorphous Carbon and Carbon Nitride films,” **Surf. Coat. Technol**. 125, 124, (2000). **> 115 citations**
66. E. Riedo, E. Magnano, S. Rubini, M. Sancrotti, E. Barborini, P. Piseri, P. Milani, “EELS and XPS analysis of carbon films grown by cluster beam deposition with different nanostructures”, **Solid State Comm**. 116, 287, (2000).
67. G. Ghislotti, E. Riedo, D. Ielmini, M. Martinelli, “Intersubband relaxation time for InGaAs/AlAs quantum wells with a large transition energy ”, **Appl. Phys. Lett**. 75, 3626 (1999).
68. G. Ghislotti, D. Ielmini, E. Riedo, M. Martinelli, “Picosecond time-resolved photoluminescence studies of recombination processes in CdTe”, **Solid State Comm.** 111, 211, (1999).

**Published Books, Book Chapters, and Edited Volumes**

1. Kyung Duk Koh, Hsiang-Chih Chiu, Elisa Riedo and Francesca Storici “Measuring the elasticity of ribonucleotide(s)-containing DNA molecules using AFM”, book chapter in *Methods in Molecular Biology with the topic of RNA nanotechnology,* Springer Protocols, (2015)
2. D. Wang, V. Kodali, J. Curtis, E. Riedo, “Nanofabrication of Functional Nanostructures by Thermochemical Nanolithography” book chapter in *Tip Based Nanofabrication: Fundamentals and Applications*, Springer (2011).
3. D. Wang, R. Szoszkiewicz, V.K. Kodali, J.E. Curtis, S.R. Marder, E. Riedo, "A New-AFM Based Lithography Method: Thermochemical Nanolithography," *Applied Scanning Probe Methods, Volume 10: Biomimetics and Industrial Applications*, (2010).
4. M. Lucas, T.-D. Li, E. Riedo, "Nanomechanics: Fundamentals and NEMS," book chapter in *Nanoelectronics and Photonics, From Atoms to Materials, Devices, and Architectures*, in the Nanostructure Science and Technology series, Springer (2008).
5. R. Szoszkiewicz, E. Riedo, "New AFM Developments to Study Elasticity and Adhesion at the Nanoscale," book chapter in *Applied Scanning Probe Methods V*, in the NanoScience and Technology series, Springer (2007).
6. L. Merchan, R. Szoszkiewicz, E. Riedo, "NanoMechanics: Elasticity in Nano-Objects," book chapter in *Fundamentals of Friction and Wear on the nanoscale*, in the NanoScience and Technology series, Springer (2007).

**Patents and Commercialization**

1. “Method and equipment for magnetic nanopatterning of substrates” patent filed in the name of Politecnico di Milano and Georgia Tech Research Corporation
2. United States Patent Application: “Thermochemical Nanolithography Components, Systems, And Methods”, Serial No.: 12/791,466, Issue Date: 18 June 2013, US 8,468,611
3. “Thermochemical Nanolithography Components, Systems, And Methods” EP2435880, 11 September 2013
4. License for “Thermochemical Nanolithography (TCNL) Components, Systems, And Methods” ID 4720 (Leading Inventor: Riedo), to *NanoInk* and at present under negotiation with *SwissLitho AG.* TCNL is a key-technology for the machine “NanoFrazor” commercialized by *SwissLitho AG*. Further developments for commercialization of TCNL with *SwissLitho* AG are under negotiation and one NanoFrazor was installed Nov 2016 in Riedo’s lab. Riedo is also in the Technical Advisory Board of *SwissLitho* AG.

**IV. Grants and Contracts**

**Submitted:**

Last Round of Revision –– NSF Reverse Site Visit

NSF – Engineering Research Center, co-P.I. (Thrust 1 Leader)

 “ERC: *Center for Biological Applications of Solid-State Systems*.”

 07/2017 – 07/2021, $17,000,000.

 Air Force Research Lab/AFOSR: White Paper (PI)

 DURIP ARO –– $250,000, Co-PI

 NSF – CHE, “*Center for Chemical Innovation: Center for Systems Chemistry*”, Co-PI

 NSF – PREM, “*CCNY-Chicago MRSEC Partnership in Research and Education in Soft Materials*”

**Funded and Active:**

1. NSF, **co-PI** (9 Investigators)

“*Collaborative Research: REU Site: Nano-NY”*

3/2017 – 3/2020, $440,000.

1. NSF – CMMI, **P.I.**

 “*MRI: Acquisition of NanoFrazor for nanofabrication of advanced nanomaterials with ultimate resolution and flexibility*.”

 08/2016 – 07/2019, $910,000.

1. DOE-BES, **Single P.I**.

 “*Nanomechanics: elasticity and friction in nano-objects*.”

 08/2006 – 07/2019, (4 successful renewals). $2,000,000.

1. NSF – CBET, **P.I.**

 “*Nanoscale investigations of water-solid interfaces for filtration applications*.”

 08/2016 – 07/2019, $345,000.

1. Army Research Office, **co-P.I.** (2 Investigators)

 “*Chemical Sciences: Transient Nanopatterns by Biocatalytic Self-Assembly*.”

 08/2016-07/2020. $ 555,848. Funds to Riedo ($ 260,000)

1. NSF – CMMI, **P.I.**

 “*Controlling the chemistry at the nanoscale: Parallelization, Robustness, and Registration*.”

 08/2014 – 07/2018, $445,000.

7. New York Stem Cells Foundation Seed Grant, **P.I.** ($10,000)

 “*Design and Screening of Material Surfaces Controlling Stem Cell Fate”*

8. New York Stem Cells Foundation Seed Grant, **P.I.** ($10,000)

 *“In vitro human myelination of axonal-like conducting nanofibers mimicking the neuronal firing process”*

9. European Commission REA Marie Sklodowska-Curie COFUND Global Fellowship Program

 “*Patterning Spin-Wave reconfIgurable Nanodevices for loGics and computing: SWING*”

 11/1/2016 – 11/1/2019, $244,000

 (Funding for a 2-year Post Doc in Riedo’s Lab)

10. NSF – DMR, Columbia and City College New York MRSEC, IRG 1, Seed Project

 “*MRSEC - Center for Precision Assembly of Superstratic And Superatomic Solids*”

 (Starting Jan. 2016, funding for a 6 months PhD student in Riedo’s Lab)

11. ASRC-CUNY Seed Grant Co-P.I. ($10,000)

12. ASRC-CUNY Seed Grant Co-P.I. ($10,000)

13. Industry Grant, Swiss Litho AG (**Single P.I.**)

 “*Nanopatterning Materials for BioTech and Photonics Applications”*

 02/2017 – 02/2019, $160,000.

**Funded and Expired**

1. NSF - Civil, Mechanical and Manufacturing Innovation.

PI. 03/2011 – 12/2014. 3 years. $350,000

1. Georgia Tech – IBSI “Physical detection and mechanical properties of ribonucleotides embedded in DNA” Multi-Investigators (2), co-PI. 1 year. $30,000
2. NSF – MRSEC “The Georgia Tech Laboratory for New Electronic Materials”. co-PI. 12/2008 – 11/2014. 6 years. $8,000,000.
3. DOE, Capital Equipment Supplement to “Nanomechanics: elasticity and friction in nano-objects”. Single Investigator, PI. 08/2011 – 07/2013. $65,028
4. Renewal of NSF – STC “Materials and Devices for Information Technology Research”. co-PI. 08/2007 – 07/2013. 5 years. $17,976,000.
5. NSF-NUE “NUE: The Nanotechnology Certificate Program at Georgia Tech”. co-PI. 09/2008 – 8/2010. 3 years. $199,567.
6. President’s Undergraduate Research Award, Fall semester 2011. $1,500
7. Renewal NSF-DMR, “Liquid dynamics in nano-confined geometries: Nano-hydrodynamics”. Single Investigator, PI. 09/2007 – 08/2010. 3 years. $300,000.
8. GAAN Support, US Dept of Education, 08/2009 - 08/2013. $6,763
9. College of Science Cutting Edge Research Award. Single Investigator, PI. 01/2006 – 06/2008. $50,000.
10. NSF-STC International Research Experience Program, PI. 01/2006 – 03/2008. $138,000.
11. Seed Project in NSF–STC “Materials and Devices for Information Technology Research”. Single Investigator, PI. 02/2005 – 08/2007. 2 years. $158,700.
12. ACS Petroleum Research Foundation, Single Investigator, PI. 09/2004 – 08/2008. 2 Years (extended). $80,000
13. NSF-DMR, “Interaction Forces in Water at the Nanoscale”. Single Investigator, PI. 06/2004 – 06/2007. $151,000.
14. President’s Undergraduate Research Award, fall semester 2004. $1,500
15. Swiss NSF grant, visiting researcher for 6 months.

**V. Presentations**

**Invited Talks at International Conferences (Selected Ones):**

* February 2018, SPIE – Advanced Lithography (San Jose CA)
* February 2018, Graphene US 2018 (New York, NY)
* Fall 2017 MRS Meeting Boston
* Summer 2017 IEEE-NANO (Pittsburg, USA)
* June 2017, ICTP-COST-MODPHYSFRICT Conference on “Trends in Nanotribology 2017, the Abdus Salam International Centre for Theoretical Physics (ICTP) in Trieste
* May 2017, STLE Tribology and Lubrication Engineering Society, Atlanta (Keynote Speaker)
* May 2017, Making and Measuring in 4-Dimensions, Brookhaven National Lab Users meeting
* March 2017, 4th Thermal Probe Workshop, Zurich, CH
* February 2017, TMS 2017 Annual Meeting & Exhibition (San Diego)
* November 2015. NanoFab in NYC Workshop
* October 2015, Tribology Frontiers Conference, Denver
* September 2015, Active and Adaptive Materials Workshop, NYC
* September 2015, Mechanical Behavior of Materials Workshop
* February 2015, Nanoscience NY Workshop, NYC
* June 2014, 13th International Ceramics Conference, CIMTEC
* January 2014 – Workshop on “Thermal Lithography”, IBM Zurich
* November 2013 - Conference on Frontiers of Condensed Matter Physics, ICTP, Trieste
* October 2013: AVS 60th International Symposium and Exhibition, “Novel 2D Materials”
* August 2012: "Dynamics and Jamming in Complex Environments," ACS National Meeting in Philadelphia, PA
* June 2012: SuperFOx, Como, (Italy)
* August 2012: MRS Joint Meeting, XXI International Materials Research Congress, Cancun
* April 2012: Lorentz Center Workshop “Fundamentals of Friction and Lubrication” (Netherlands)
* February 2012: NSF Site Visit of GT MRSEC – co-PI Seminar
* September 2011: Joint ICTP-FANAS Conference on Trends in Nanotribology, International Center of Theoretical Physics (ICTP)
* June 2011: International Conference on Mechanical Behavior of Materials, ICM11, Villa Erba
* May 2011: South east Soft Materials Workshop, Georgia Institute of Technology
* September 2010: DOE/BES Mechanical Behavior and Radiation Effects of Materials Contractors' Meeting, Washington DC, (USA).
* June 2010: 8th International Workshop on Epitaxial Semiconductors on Patterned Substrates and Novel Index Surfaces Como (Italy)
* October 2009: “NanoComposite 2009” Lake Louise, Canada.
* August 2009: “Gordon Conference: Chemistry and Physics of Liquids”, Holderness School, Plymouth NH (USA).
* October 2008: “Conference on the Physics, Chemistry, and Biology of Water 2007”, Vermont (USA).
* June 2008: “Physics of Micro- and NanoFluids”, Lorentz Center, Leiden (NL).
* April 2008: “Behavior of Defects in Materials - Contractors Meeting 2008”, Warrenton, VA (USA).
* October 2007: “Conference on the Physics, Chemistry, and Biology of Water 2007”, Vermont (USA).
* October 2006: Workshop on “Frontiers of Scanning Probe Microscopy,” Purdue University, West Lafayette, Indiana, (USA).
* September 2006: 5th ESF-Nanotribology Workshop, Antalya (Turkey).
* March 2006: ACS National Meeting in Atlanta, Georgia (USA).
* March 2004: Frontiers in Tribology 2004, Oak Ridge, Tennessee (USA).
* Fall 2004: GT Materials Council Nano-materials Forum, (USA).
* June 2005: 4rd ESF-Nanotribology Workshop, Porcherolles (France).
* September 2003: International Conference, “TNT03: Trends in NanoTechnology, 2003,” Salamanca (Spain).
* February 2003: International Conference, “From elasticity to plastic flow in condensed media,” Les Houches (France).

**Invited Seminars and Colloquia at Universities/Research Centers (selected ones):**

* November 2017: Levich Institute at CUNY
* November 2017: CCNY Chemical Engineering
* September 2017: CNST –– NIST Director's Office Lecture
* September 2017: Columbia University
* April 2017: IBM Thomas J. Watson Research Center
* February 2017: New York University Tandon School of Engineering, (USA)
* November 2016: New York University, (USA)
* October 2016: CUNY Graduate Center (USA)
* Fall 2016: German Delegation Workshop, Columbia University (USA)
* April 2016: Yale University (USA)
* March 2016: City College New York (USA)
* February 2016: Air Force Research Lab, Dayton OH (USA)
* January 2016: Columbia University (USA)
* November 2015: New York University, (USA)
* October 2015: MRS Student Chapter
* February 2014: City College New York, (USA)
* June 2013: IBM, Zurich (CH)
* September 2012: New York University, (USA)
* June 2012: IBM, Zurich (CH).
* June 2010: Politecnico of Milan (Italy).
* March 2009: University of Miami (USA).
* November 2008: Agilent Workshop, Georgia Tech, (USA).
* September 2008: The Johns Hopkins University, (USA).
* April 2008: Colloid & Soft Matter Bag Lunch Seminar series, Georgia Tech, (USA).
* April 2007: University of South Florida (USA).
* July 2006: Solvay Workshop, Georgia Tech, (USA).
* June 2006: University of Maryland (USA).
* May 2006: School of Chemistry and Biochemistry, Georgia Tech, (USA).
* April 2006: University of South Florida (USA).
* January 2006: Emory University (USA).
* January 2006: University of Maryland (USA).
* September 2005: North Carolina State University (USA).
* Spring 2005: Invited lecture in MSE, Georgia Tech, (USA).
* Fall 2004: COPE seminar series, Georgia Tech, (USA).
* Summer 2004: School of Physics, REU seminar series, Georgia Tech, (USA).
* Spring 2004: Center for Process Systems Engineering series, Georgia Tech, (USA).
* January 2003: Georgia Institute of Technology (USA).
* November 2002: CNRS Grenoble (France).
* October 2002: University of Basel (Switzerland).
* September 2002: PCSM-ESPCI, Paris (France).
* May 2002: University of Paris VII (France).
* April 2002: University of Cambridge (England).
* September 2000: EPFL Lausanne (Switzerland).

**VI. Honors and Awards**

2017: The CNST NIST Director's office Lecture (Upcoming September 2017)

2013: American Physical Society Elected Fellow, for “*For atomic force microscopy studies of nanoscale friction, liquid structure and nanotube elasticity, and the invention of thermochemical nanolithography”.*

2006: GT Cutting Edge Research Award

2005: Selected *Highly Creative Researcher in Nanoscience and Nanotechnology* for the “Project on Creativity Capabilities and the Promotion of Highly Innovative Research” (CREA), a joint USA/European endeavor.

2002: Best Poster, Gordon International Conference Tribology 2002.

1999: Best ESRF Graduate Student Grant Award, ESRF, Grenoble.

1995: Physics Degree *Summa cum Laude*.

**VII. Boards and Meeting Organization:**

1. Technical Advisory Board of *SwissLitho* AG.
2. Editorial Board Member for *“Scientific Reports”* *Nature PG* (2012-present)
3. Editorial Board Member for “*Review of Scientific Instruments*” (2008-2010).
4. Session Chair at the 2016 APS March Meeting Symposium on Nanoconfined water.
5. Co-Organizer of the workshop *NanoFab in NYC*, November 2015
6. Co-Organizer and Session Chair of the *Focus Topic* “Physics of Confined Liquids” at the 2015 APS March Meeting.
7. Member of the program committee for the 2014 AVS Symposium on Novel 2D Materials
8. Session Chair at the 2013 AVS Symposium on Novel 2D Materials.
9. Session Chair at the 2012 ACS Symposium on Dynamics and Jamming.
10. Co-Organizer of the *Focus Topic* “Tribophysics” at the 2010 APS March Meeting.
11. Founder and co-Organizer of the “Southeast Workshop Series on Soft Materials”, GeorgiaTech Campus, yearly since 2008.
12. Co-Organizer of the Conference “Nano and Giga Challenges in Electronics, Photonics and Renewable Energy”, Hamilton, Ontario, Canada, August 10-14, 2009.
13. Co-Organizer and Chair of the *Focus Topic* “Friction, Fracture, and Deformation” at the 2007 March Meeting of the American Physical Society (APS).
14. Co-chair of the symposium on “Nanotechnology and MEMS: Experiments and Modeling”*,* 12th International Conference on Experimental Mechanics (ICEM12), 2004.

**VIII. Teaching**

**Courses Taught**

**Georgia Tech**

Fall 2003 Phys 2211E Introductory Physics 1 108

Spring 2004 Phys 8803A Special Topics (with Chem & Mech. Eng) 15

Fall 2005 Phys 4142A Statistical Mechanics 35

Spring 2006 Phys 6107 Statistical Mechanics (Grad) 31

Fall 20006 Phys 4142A Statistical Mechanics 26

Spring 2007 Phys 3141A Thermodynamics 41

Fall 2007 Phys 4142A Statistical Mechanics 37

Spring 2008 Phys 3141A Thermodynamics 47

Fall 2008 Phys 4142A Statistical Mechanics 37

Spring 2009 Phys 3141A Thermodynamics 41

Fall 2009 Phys 2213B Intro to Modern Physics 21

Spring 2010 Phys 4803N and Phys 8803A Special Topics 15

Fall 2010 Phys 2213B Intro to Modern Physics 26

Spring 2011 Phys 8803A and Phys 4803N Special Topics 7

Fall 2011 Phys 2212N Introductory Physics II 209

Spring 2012 Phys 8803A and Phys 4803N Special Topics 7

Fall 2012 Phys 2212Q Introductory Physics II 207

Spring 2013 Phys 4142A Statistical Mechanics 31

Fall 2013 Phys 2213B Intro to Modern Physics 30

Spring 2014 Phys 2213B Intro to Modern Physics 15

Fall 2014 Phys 2213B Intro to Modern Physics 30

Spring 2015 Phys 3141A Thermodynamics 40

**CUNY**

Fall 2016 Phys 22300 Physics I for Pre-Med 95

Spring 20017 CHEM 79051 Nanoscience Laboratory (Grad) 21

 (linked in Phys and Eng)

**Other Teaching and Educational Activities**

1. New Course Development: *Nanoscience Laboratory Course*
2. New Course development: *Nanoscale Properties and Characterization*
3. New Course development: *Scanning Probe Microscopy*
4. Several REU students

**IX. Service**

**Service on thesis and dissertation committees**

* The University of Western Australia, Ph.D. Thesis External Examiner (2014)
* GT School of Physics Ph.D. Thesis Committees (2007, 2008, 2010, 2013, 2016)
* GT School of Chemistry and Biochemistry OP-Ph.D. Thesis Committees (2006, 2008, 2014)
* GT Material Science Engineering Ph.D. Thesis Committee (2006 and 2007)
* GT Mechanical Engineering Ph.D. Thesis Committee (2007, 2015)

**Review Activities:**

Reviewer for:

* The National Science Foundation (NSF) and NSF-Panel Reviewer
* The ACS Petroleum Foundation
* The Department of Energy (DOE)
* The Swedish National Science Foundation
* The European Science Foundation (ESF)
* The Swiss National Science Foundation
* Reviewer for the Following Journals:
* Nature, Nature Nanotechnology, Nature Materials, Nature Communications, ACS Nano, Physical Review Letters, Physical Review B, Journal of Physical Chemistry B, Journal of Chemical Physics, Tribology Letters, Applied Physics Letters, Review of Scientific Instruments, Advanced Materials, Applied Surface Science, Langmuir, Nano Letters, Science.

**Committees - Georgia Tech:**

* Reappointment, Promotion and Tenure Committee (2011-12-13-14)
* Condensed Matter faculty search committee (2013-2014)
* Colloquium committee (2011-12-13)
* Biophysics faculty search committee (2011)
* Materials Task Force member (2011)
* Globalization Task Force member (2011-2012)
* Physics Chair Faculty Search Committee (2010)
* Biophysics Search Committee, Physics (2007-08-09-10)
* Strategic Planning Committee: Physics (2007-08)
* Physics Faculty Advisory Committee (elected in 2007)
* Undergraduate physics major advisement (2004-2007)
* Physics Graduate Students Committee (2007)
* Physics Special Topics Seminar, Chair (2007)
* Physics Chair Faculty Search Committee (2005)
* Georgia Tech Sigma-Xi best PhD thesis Committee (2006)
* Physics Society of Physics advisor (2004-2005)
* Physics Undergraduate Committee (2005)
* Physics Colloquium Committee (2004, 2005)
* Physics Graduate Exam Committee (2004-2005)

**Committees – CUNY ASRC:**

* Neuroscience Professor Search Committee (2017)
* Nanoscience Professor Search Committee (2016)
* Physics Graduate Program Improvement (2016)

**X. Societal And Policy Impacts**

* CUNY Graduate Center “NanoMedicine” – Panelist, October 2017
* NY World Science Festival: One day HS and MS girls in the lab –– June 2017
* CUNY Women in Science 2015: Breaking Barriers to Success forum ([YouTube](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwj_kMak0qjOAhVF0oMKHfgvBQIQtwIIHDAA&url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DYGz1PZIO6uM&usg=AFQjCNGHQJpuB9rtDWMO1mJo0TqZurFNBw&bvm=bv.128987424,d.amc))
* Presentation for the William E. Macaulay Honors College UG students (2016)
* Elementary School activities at the Atlanta International School (2010-2014)
* Graduate Students Recruitment and International Activities (Georgia Tech)
* May 2014, Women in Physics (WiP) at Georgia Tech, co-Founder, <http://www.wip.gatech.edu>
* April 2014, Public Lecture for Prospective Undergraduates at Georgia Tech
* November 2012, Lecture for "Inquiring Minds @ Tech" Public Lecture Series
* Lecture on *A Molecular Foundry @ GT*  for the Physics Homecoming Event (Spring 2011)
* Presentation for a Career Panel at the 2008 NSF-STC retreat in Atlanta, Spring 2008.
* WIC (Women in Chemistry) & CMDITR - Georgia Tech Leadership Lunch "Female Faculty Work Life Balance", October 2008.
* Organization of the Women in Science Film Festival on Georgia Tech campus, March 2005.

**XI. Individual Student Guidance**

**Postdoctoral Fellows Supervised:**

|  |  |  |
| --- | --- | --- |
| *Name* | *Term* | *New Position* |
| Filippo Cellini | 2017-present |  |
| Xiaouri Zheng | 2017-present |  |
| Edoardo Albisetti | 2016-present |  |
| Annalisa Calo’ | 2016-present |  |
| Tai-De Li | 2014-2015 |  |
| Hsiang-Chih Chiu | 2009-2013 | Assistant Professor, NTNU Taiwan |
| Suenne Kim | 2008-2013 | Assistant Professor, Hanyang University Korea |
| Soo-Young Kim | 2007- 2008 | Assistant Professor, Korea |
| Marcel Lucas  | 2006- 2009 | * Institute for Shock Physics at WSU
 |
| Robert Szoszkiewicz | 2004-2006 | Associate Professor, Kansas State Univ. |

**Visiting researchers:**

|  |  |  |
| --- | --- | --- |
| *Name* | *Term* | *Fellowship/Institution* |
| Lucel Sirghi | Fall 2004-Spring 2005 | Fulbright Fellow (Al. I. Cuza University, Romania) |

**Graduate Students** **Supervised:**

|  |  |  |  |
| --- | --- | --- | --- |
| *Student* | *Degree* | *Date* | *New Position/Awards* |
| Francesco Lavini | Ph.D. | 2015-present (CUNY) | Graduate student in My Lab |
| Xiang Liu | Ph.D. | 2017-present (CUNY) | Graduate student in My Lab |
| Yang Gao | Ph.D. | Successful defense 3/22/2017, GT | Post Doc UC Berkeley (since 2017) |
| Xi Lu | Ph.D. | Successful defense 1/13/2016, GT | CiTi |
| Edoardo Albisetti | Ph.D. | Successful defense 02/2014, GT and Politecnico Milano with Prof. Bertacco | Marie Curie Fellow |
| Keith Carroll | Ph.D. | Successful defense 11/13/2013, GTCo-advised with Prof. Curtis | IBM-Zurich |
| Underwood, William David | M.S. | Successful defense 08/24/2009, GT Co-advised with Prof. S. Marder |  |
| Alex Turinske | M.S. | Graduated 2014 | MyVest |
| Deborah Ortiz | M.S. | Graduated 2012 | Spelman College |
| Ismael Palaci | Ph.D. | Successful defense 02/2006, GT and EPFL ,Co-advised with Prof. Brune | Siemens (CH) |
| Debin Wang  | Ph.D. | Successful defense 6/4/2010, GT | Post Doc UC Berkeley and Seagate |
| Tai-De Li | Ph.D. | Successful defense 6/4/2008, GT | Research Professor at CUNYAmelio Award (2008)  |
| Brian Kocher | M.S. | Graduated 2009 | Microsoft |

**Special Problem Pre-qualifier Ph.D. Students Supervised:**

8 pre-qualifier students worked so far in Riedo’s Lab for 1 or 2 semesters.

**Service on thesis or dissertation committees**

* Parlak, Zehra (Georgia Institute of Technology, 2010-11-15)
* Bedoya, Mauricio David (Georgia Institute of Technology, 2015-11-16)
* Giordano, Anthony J. (Georgia Institute of Technology, 2014-05-01)
* Liu, Xiya (Georgia Institute of Technology, 2008-05-07)
* Leach, Austin Miles (Georgia Institute of Technology, 2007-08-27)
* Wei, Yaguang (Georgia Institute of Technology, 2007-11-14)
* Sherpa, Sonam Dorje (Georgia Institute of Technology, 2013-03-14)
* Merchan Alvarez, Lina (Georgia Institute of Technology, 2012-01-17)
* Bidasaria, Sanjay K. (Georgia Institute of Technology, 2008-12-16)
* Guo, Qiong (Georgia Institute of Technology, 2012-03-27)
* Dingreville, Remi (Georgia Institute of Technology, 2007-07-31)
* Masters, Nathan Daniel (Georgia Institute of Technology, 2006-07-07)
* Hu, Yike (Georgia Institute of Technology, 2013-08-13)
* Malicki, Michal (Georgia Institute of Technology, 2009-10-01)
* Howard, John Brooks (Georgia Institute of Technology, 2009-08-24)

**Undergraduate Students Supervised**:

|  |  |  |  |
| --- | --- | --- | --- |
| *Student* | *Term* | *Title* | *New Position/Awards* |
| Rebeca Maria Muresan | Summer 2017 | REU student |  |
| Patrick Doyle | 2012-2013 | Student Assistant |  |
| Joseph Hartsell | 2011 | Research Assistant and PURA fellow |  |
| Nicki Reishus | Summer 2008 | REU student |  |
| Odion Okojie  | Summer 2007 | REU student |  |
| John Kickhofel | 2006-2008 | Student Assistant | M.S. student, EPFL/ETHZ (CH) |
| Andrew Dunnells | 2007-2008 | Student Assistant |  |
| Ajay Patel | 2007-2008 | Student Assistant | M.D. student, Univ. of Minnesota |
| Guy Harris | 2007 | Student Assistant |  |
| Steve Medina |  | Student Assistant |  |
| E. Henderson | Summer 2006 | REU Student |  |
| Kristin Beck | Summer 2006 | REU Student | Goldwater Scholarship |
| Jonathan Diaz | 2006 | Research Assistant | Goldwater Scholarship |
| Scott Eric Toupin  | Summer 2005 | REU Student |  |
| Ariel Bedford | Summer 2005 | REU Student |  |
| Diane Crenshaw | Summer 2004 | REU Student |  |
| Michael Chen | 2004-2005 | Research Assistant | Ph.D. student, Amherst College |
| Anna Pavlova | 2004-2006 | Research Assistant and PURA fellow | Ph.D. student, UC Santa Barbara |