

Mahesh C. Gandikota

CONTACT INFORMATION	611, Havemeyer Hall, 3000 Broadway, New York, NY 10027.	mcgandikota@gmail.com mcgandikota.github.io
PRESENT EMPLOYMENT	Postdoc in the Cacciuto Group, Department of Chemistry, Columbia University, New York, NY, USA.	
EDUCATION	Ph.D., Physics , Syracuse University, Syracuse, NY, USA	2021
	Thesis Advisor: Prof. J. M. Schwarz	
	Integrated M.Sc., Physics , National Institute of Science Education and Research, Orissa, India	2015
	Thesis Advisor: Prof. Somendra Bhattacharjee, Ashoka University, Haryana, India	
	G.P.A.: 8.2/10.0	
	Twelfth grade board exam , National College, Bangalore, India	2010
	Marks: 81%	
	Tenth grade board exam , HJKP, Bangalore, India	2008
EMPLOYMENT	Postdoc , Department of Chemistry, Columbia University, NY, USA	2021–Present
	Research Assistant , Department of Physics, Syracuse University, NY, USA	2016–2021
	Teaching Assistant , Department of Physics, Syracuse University, NY, USA	2015–2020
PUBLICATIONS	<ol style="list-style-type: none">7. M. C. Gandikota and A. Cacciuto, “The crumpling transition of active tethered membranes”, Soft Matter, 19.28 (2023).6. M. C. Gandikota and A. Cacciuto, “Rectification of confined soft vesicles containing active particles”, Soft Matter, 19.2 (2023).5. M. C. Gandikota and A. Cacciuto, “Effective forces between active polymers”, Physical Review E, 105, 034503 (2022).4. M. C. Gandikota Amanda Parker and J. M. Schwarz, “Rigidity transitions in zero-temperature polygons”, Physical Review E, 106, 055003 (2022).3. M. C. Gandikota and J. M. Schwarz, “Buckling without bending morphogenesis: Nonlinearities, spatial confinement, and branching hierarchies”, New Journal of Physics, 23, 063060 (2021).2. M. C. Gandikota, Katarzyna Pogoda, Anne van Oosten, T. A. Engstrom, A. E. Patteson, P. A. Janmey, J. M. Schwarz, “Loops versus lines and the compression stiffening of cells”, Soft Matter, 16(18), 4389-4406 (2020).1. S. Paul, M. C. Gandikota, “Fourier Transform of Electric Signal using Kundt’s Tube”, Student Journal of Physics, 6(2), 95-100 (2016).	

TEACHING
EXPERIENCE

Recitations/Substitute Lecturer

PHY 216, General Physics II for honors and majors **Spring & Fall 2017, Spring 2018**
 PHY 212, General Physics II **Spring & Fall 2016**
 PHY 211, General Physics I **Fall 2015**

Labs

AST 101, Our Place in the Universe **Fall 2020**
 PHY 102, Major Concepts of Physics II **Spring 2019, 2020**

Grading/Substitute Lecturer

PHY 635, Physical Cell Biology **Fall 2018**
 PHY 360, Vibrations, Waves and Optics **Fall 2018**

Guest Lecturer

CHEM G4221, Statistical Thermodynamics **Fall 2022**

MENTORING

Undergraduate Students

Alexandra Brown (REU program) **Summer 2016**

LANGUAGES

Human: English (fluent), Hindi, Telugu (mother tongue), Kannada (native).

Computer: Bash, C++, Python, MATHEMATICA.

Markup: \LaTeX , Markdown, HTML, CSS.

Operating System: Linux, Windows.

AWARDS

Summer Graduate Fellowship, Soft Matter Program, Syracuse University **Summer 2017**

Henry Levinstein Fellowship, Physics Department, Syracuse University **Summer 2016**

All India Rank 24, Graduate Aptitude Test in Engineering (GATE) **2015**

Summer Research fellow, Indian Academies of Sciences **Summer 2012**

INSPIRE fellowship, Department of Science and Technology, Government of India **2010-15**

CONFERENCES/
WORKSHOPS

Northeast Complex Fluids and Soft Matter workshop, contributed talk. **2023**

APS March Meeting, contributed talks. **2017, 2018, 2019, 2020**

Soft Matter Summer School, University of Massachusetts, Amherst, poster. **2017**

PROFESSIONAL
ACTIVITIES AND
SERVICE

Experiment Leader, Girls Science Day, Columbia University. **2023**

Organizer, Soft Matter Journal Club, Syracuse University. **2019-2020**

Moderator, APS Conference for Undergraduate Women in Physics, Syracuse University. **2016**

Volunteer, Photographer, Active and Smart Matter conference, Syracuse University. **2016**

Volunteer, Science Day, annual joint outreach program to high school students,
NISER, IOP, Bhubaneswar. **2011, 2012, 2014**

NON-ACADEMIC
ACTIVITIES

President, Argentine Tango Club, Syracuse University. **Fall 2017 - Fall 2020**

Editorial Board, Jignasa, annual magazine of NISER, Bhubaneswar. **2014**

REFERENCES

A. Cacciuto

Associate Professor
Department of Chemistry
Columbia University in the City of New York
Havemeyer Hall
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J. M. Schwarz

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