

Mahesh C. Gandikota

CONTACT INFORMATION	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 Thesis Advisor: Prof. J. M. Schwarz G.P.A.: 3.7/4.0 Integrated M.Sc., Physics , National Institute of Science Education and Research, Orissa, India Thesis Advisor: Prof. Somendra Bhattacharjee, Ashoka University, Haryana, India G.P.A.: 8.2/10.0 Twelfth grade board exam , National College, Bangalore, India Marks: 81% Tenth grade board exam , HJKP, Bangalore, India Marks: 97.4%	2021 2015 2010 2008
EMPLOYMENT	Postdoc , Department of Chemistry, Columbia University, NY, USA Research Assistant , Department of Physics, Syracuse University, NY, USA Teaching Assistant , Department of Physics, Syracuse University, NY, USA	2021–Present 2016–2021 2015–2020
PUBLICATIONS	Under Review: <i>The crumpling transition of active tethered membranes</i> with A. Cacciuto. Published: 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

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