

Maresh 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	Research Assistant , Department of Physics, Syracuse University, USA Teaching Assistant , Department of Physics, Syracuse University, USA	2016–2021 2015–2020
PUBLICATIONS	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 PHY 212, General Physics II PHY 211, General Physics I	Spring & Fall 2017, Spring 2018 Spring & Fall 2016 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

MENTORING

Undergraduate Students

Alexandra Brown (REU program)	Summer 2016
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LANGUAGES

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

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

Markup: L^AT_EX, 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

APS March Meeting , contributed talks.	2017, 2018, 2019, 2020
Soft Matter Summer School , University of Massachusetts, Amherst, poster.	2017
Monsoon School: Physics of Life , National Centre for Biological Sciences, Bangalore.	2013
Summer School in Experimental Physics , NIUS - HBCSE, TIFR.	2012

PROFESSIONAL ACTIVITIES AND SERVICE

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

J. M. Schwarz

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