

## Maresh C. Gandikota

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CONTACT INFORMATION	611, Havemeyer Hall, 3000 Broadway, New York, NY 10027.	<a href="mailto:mcgandikota@gmail.com">mcgandikota@gmail.com</a> <a href="https://github.com/mcgandikota">mcgandikota.github.io</a>
PRESENT EMPLOYMENT	Postdoc in the Cacciuto Group, Department of Chemistry, Columbia University, New York, NY, USA.	
EDUCATION	<b>Ph.D., Physics</b> , Syracuse University, Syracuse, NY, USA Thesis Advisor: Prof. J. M. Schwarz <b>Integrated M.Sc., Physics</b> , 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 <b>Twelfth grade board exam</b> , National College, Bangalore, India Marks: 81% <b>Tenth grade board exam</b> , HJKP, Bangalore, India Marks: 97.4%	<b>2021</b>        <b>2015</b>       <b>2010</b>       <b>2008</b>
EMPLOYMENT	<b>Postdoc</b> , Department of Chemistry, Columbia University, NY, USA <b>Research Assistant</b> , Department of Physics, Syracuse University, NY, USA <b>Teaching Assistant</b> , Department of Physics, Syracuse University, NY, USA	<b>2021–Present</b> <b>2016–2021</b> <b>2015–2020</b>
PUBLICATIONS	<ol style="list-style-type: none"><li>8. <a href="#">M. C. Gandikota</a>, Shibabanda Das and A. Cacciuto, “Spontaneous crumpling of active spherical shells”, <i>in review</i>.</li><li>7. <a href="#">M. C. Gandikota</a> and A. Cacciuto, “The crumpling transition of active tethered membranes”, <i>Soft Matter</i>, 19.28 (2023).</li><li>6. <a href="#">M. C. Gandikota</a> and A. Cacciuto, “Rectification of confined soft vesicles containing active particles”, <i>Soft Matter</i>, 19.2 (2023).</li><li>5. <a href="#">M. C. Gandikota</a> and A. Cacciuto, “Effective forces between active polymers”, <i>Physical Review E</i>, 105, 034503 (2022).</li><li>4. <a href="#">M. C. Gandikota</a> Amanda Parker and J. M. Schwarz, “Rigidity transitions in zero-temperature polygons”, <i>Physical Review E</i>, 106, 055003 (2022).</li><li>3. <a href="#">M. C. Gandikota</a> and J. M. Schwarz, “Buckling without bending morphogenesis: Nonlinearities, spatial confinement, and branching hierarchies”, <i>New Journal of Physics</i>, 23, 063060 (2021).</li><li>2. <a href="#">M. C. Gandikota</a>, 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”, <i>Soft Matter</i>, 16(18), 4389-4406 (2020).</li><li>1. S. Paul, <a href="#">M. C. Gandikota</a>, “Fourier Transform of Electric Signal using Kundt’s Tube”, <i>Student Journal of Physics</i>, 6(2), 95-100 (2016).</li></ol>	

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:**  $\text{\LaTeX}$ , 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

**Gordon Research Seminar & Conference**, contributed posters.      **2023**

**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  
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Professor  
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Syracuse, NY 13244, USA  
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