

Abhiteja Konda, Ph.D.

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Education

- **Post-doc** at Nanoscience and Technology Division, Argonne National Laboratory, U.S.A. Nov 2018 – Present. Advisor: Prof. Anindita Basu.
- **Ph. D. in Chemistry (Material Science)** at University of Nebraska–Lincoln, U.S.A.; GPA: 3.87 Aug 2018; Advisor: Prof. Stephen A. Morin.
- **Erasmus Mundus - Joint European Masters in Quality in Analytical Laboratories (EMQAL)**. Mar 2012; Advisor: Prof. Bjørn Grung, University of Bergen, Norway; GPA: 4.0 Aug 2011; Advisor: Prof. Miquel Esteban, University of Barcelona, Spain; GPA: 3.73
- **Bachelor's in Pharmacy** at Vinayaka Missions University, Salem, India. Aug 2010; Gold Medalist; GPA: 4.0

Research Experience

- As a post-doctoral researcher, currently working on developing microfluidic systems for the on-chip screening /analysis at single drop scales of different biological and chemical analytes.
- As a graduate research assistant, worked on fabrication of microfluidic devices with programmable channel morphology and dimensions, and applied them to investigate the effect of fluid flow on the synthesis/growth of inorganic nanomaterials, and to deposit functional coatings.
- As a graduate researcher, worked on developing a chemometric tool to set the statistical limits for selectivity ratio (a parameter that describes the importance of variables in chromatographic profiles).
- As an undergraduate researcher, worked on determining the anti-carcinogenic effect of biodegradable polymeric nanoparticles on different cancer cell lines, and studied their gene expression levels.

Work Experience

- **Asst. Quality Manager**, at Vijaya Diagnostic Centre, Hyderabad, India, Nov'12 – Jun'13.

Awards and achievements

- Received the 2018-2019 Folsom Distinguished Doctoral Dissertation Award at UNL for Ph.D. dissertation.
- Received the Honorable Mention for the 2017-2018 Outstanding Graduate Research Assistant Award by the Dept. of Chemistry, University of Nebraska–Lincoln.
- Best Poster Award Winner at the 2018 MRS Spring Meeting & Exhibit, Phoenix, AZ, Apr'18.
- Department of Chemistry Graduate Student Travel Award (Spring'18), University of Nebraska-Lincoln.
- Graduate Student Assembly Travel Award (Spring'18), University of Nebraska-Lincoln.
- Awarded a Citation for Excellence in Teaching Chemistry (Spring'17) by the Dept. of Chemistry, University of Nebraska–Lincoln.
- Erasmus Mundus Scholarship for Masters, 2010-12.
- Honored with University Gold Medal – Vinayaka Missions University for all round academic excellence.

Publications

15. **Konda, A.**; Taylor, J. M.; Morin, S. A. *Manuscript in preparation*.
14. **Konda, A.**; Blum, J.; Schwenka, M.; Taylor, J. M.; Perez-Toralla, K.; Morin, S. A. *Manuscript in preparation*.
13. Mazaltarim, A. J.; Taylor, J. M.; **Konda, A.**; Stoller, M. A.; Morin, S. A. **2019**, Submitted.
12. **Konda, A.**; Lee, D.; You, T.; Wang, X.; Ryu, S; Morin, S. A. **2019**, Submitted.
11. **Konda, A.**; Rau, A.; Stoller, M. A.; Taylor, J. M.; Salam, A.; Pribil, G. A.; Argyropoulos, C.; Morin, S. A. *Adv. Funct. Mater.* **2018**, 1803020.
10. Bowen, J. J.; Rose, M. A.; **Konda, A.**; Morin, S. A. *Angewandte Chemie* **2018**, 57, 1-6.
9. Perez-T, K.; **Konda, A.**; Bowen, J. J.; Jennings, E. E.; Argyropoulos, C.; Morin, S. A. *Adv. Funct. Mater.* **2018**, 1705564.

8. **Konda, A.**; Morin, S. A. *Nanoscale* **2017**, 9, 8393-8400.
7. Vinod, T.P.; Taylor, J. M.; **Konda, A.**; Morin, S. A. *Small* **2017**, 13, 1603350.
6. Stoller, M. A.; **Konda, A.**; Kottwitz, M. A.; Morin, S. A. *RSC Adv.* **2015**, 5, 97934-97943.
5. **Konda, A.**; Taylor, J. M.; Stoller, M. A.; Morin, S. A. *Lab Chip.* **2015**, 15, 2009-2017.
4. Kumudhavalli, M.V.; Margret, C.R.; Goswami, S.; **Konda, A.**; Balasundaram, J. *The Pharmacist* **2010**, 5, 47-53.
3. Kumudhavalli, M.V.; Sandeep Sahu; **Konda, A.**; Balasundaram, J. *International Journal of Pharma Recent Research* **2010**, 2, 57-60.
2. Balasundaram, J; Kumudhavalli, M.V.; Koteswara Rao, V.P.V.S.; Saravanan, C.; Chandira, M.; **Konda, A.**; *Annals of Pharmacy and Pharmaceutical Sciences* **2010**, 1, 152-154.
1. Margret, C.R.; Kumudhavalli, M.V.; **Konda, A.**; Balasundaram, J. *Journal of Pharmacy Research* **2009**, 2(6), 1141-1143.

Presentations

Oral

1. Soft Microreactors for the Solution-phase Deposition of Conductive Metallic Traces on Three-dimensional Components for Electronics. Presented at the 2017 MRS Fall Meeting & Exhibit, Boston, MA, Nov 30, 2017.
2. Flow-directed Synthesis of 1D ZnO Nano/Mesostructures with Controlled Morphology and Composition. Presented at the 2017 MRS Fall Meeting & Exhibit, Boston, MA, Nov 27, 2017.
3. Programmable Soft Reactors for Controlled Synthesis/Deposition of Functional Inorganic Materials on Arbitrary Surfaces. Presented at the Nebraska Microfluidics Symposium, UNL, Lincoln, NE, Oct 16, 2017.
4. Microfluidic Reactors with Rapidly Reconfigurable Microchannel Networks and Dimensions, and Support Substrates. Presented at the Nebraska Academy of Science's 124th Annual Meeting, Lincoln, NE, Apr'14.

Posters

1. Programmable Deformations of Microchannel Networks for Soft Robotics. Presented and recognized as the "Best Poster Award Winner" at the 2018 MRS Spring Meeting & Exhibit, Phoenix, AZ, Apr'18.
2. Reconfigurable Microreactors for Fundamental Crystal Growth Investigations and the Deposition of Conductive Metallic Traces. Presented at the UNL Chemistry Dept. Summer 2017 Poster Session, Aug'17.
3. Soft Systems for the controlled Synthesis and Fabrication of Functional Materials. Presented at 3M during a Industrial Visit as a part of Grant Awarding Ceremony, Minneapolis, MN, Jun'15.
4. Programmed Shape Change of 2D Thermoplastic Structures into 3D Components. Presented at the 249th American Chemical Society National Meeting – Spring, Denver, CO, Mar'15.
5. Elastomeric Microfluidic Reactors for use with 2D and 3D Surfaces. Presented at the 249th American Chemical Society National Meeting – Spring, Denver, CO, Mar'15.
6. Rapidly Reconfigurable Microfluidic Systems. Presented at UNL Chemistry Dept. Summer'14 Poster Session, Aug'14. Awarded 2nd place in the beginning graduate category.
7. Anti-Neoplastic activity of Nocodazole on HeLa–cervical cancer and Daoy–Medulloblastoma cell lines. Presented at the Indian Pharmaceutical Association – Convention, Chennai, India, Mar'10.

Teaching Experience

- **Teaching Assistant** for General Chemistry and Analytical Chemistry, at Department of Chemistry, University of Nebraska–Lincoln. Aug'13 – May'17.
- **Mentored** undergraduate/high-school students in pursuing research in chemistry at University of Nebraska–Lincoln.
- **Co-organized outreach activities** on Nanoscience and Soft-robotics at the Nebraska Center for Materials and Nanoscience, and Maker's club at Nebraska Innovation Campus, at University of Nebraska-Lincoln.
- **Organized/participated in Science activities** on 3D printing, Newtonian and non-Newtonian fluids, forensic chemistry: science behind fingerprints, geochemistry: concrete science) to promote Chemistry as a part of the Annual Chemistry Day Celebrations at the University of Nebraska-Lincoln, 2013-2017.