

Curriculum Vitae Kirti M. Yenkie

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Education and Professional Experience

- 09/2017 - present** **Assistant Professor at Rowan University, Glassboro, New Jersey**
Department of Chemical Engineering
Current Projects:
1) *Mathematical modeling and optimization in cancer therapeutics using systems engineering principles*
2) *Design and optimization for generation of efficient wastewater treatment networks*
3) *Predictive analytics for management of IBS (irritable bowel syndrome) through customized supplements of probiotics and diet management.*
4) *Solvent recovery and reuse for efficient and sustainable industrial manufacturing practices.*
- 04/2017 - 08/2017** **Postdoctoral Research Associate at University of Delaware (UD) - Newark**
Department of Chemical and Biomolecular Engineering
Project: *Systems biology models for COPD (Chronic Obstructive Pulmonary Diseases)*
Advisor: Dr. Babatunde A. Ogunnaike
- 01/2015 - 03/2017** **Postdoctoral Research Associate at University of Wisconsin (UW) - Madison**
Department of Chemical and Biological Engineering
Project: *Separation strategies for bio-based chemicals produced from microbial bioconversions*
Advisor: Dr. Christos T. Maravelias
- 01/2011 - 12/2014** **University of Illinois at Chicago (UIC), IL and Vishwamitra Research Institute (VRI), IL**
Ph.D. in Bioengineering
Thesis: *Stochastic processes from batch crystallization to in-vitro fertilization (IVF)*
Advisor: Dr. Urmila M. Diwekar
- 07/2010 - 11/2010** **Senior Research Fellow, Indian Institute of Technology (IIT) Bombay, India**
Department of Chemical Engineering
Project: *Metabolic modeling of cyanobacteria for enhanced ethanol production*
Advisor: Dr. Pramod P. Wangikar
- 07/2008 - 06/2010** **Indian Institute of Technology (IIT) Bombay, India**
M. Tech in Chemical Engineering
Thesis: *Mathematical modeling to correlate morphology and metabolism in Actinomycetes*
Advisors: Dr. Pramod P. Wangikar and Dr. Sameer R. Jadhav
- 08/2004 - 05/2008** **Laxminarayan Institute of Technology, RTM Nagpur University, India**
Project: *Design and performance comparison studies for rotary and belt conveyer dryers*
B. Tech in Chemical Engineering

Awards & Honors

- **US EPA Pollution Prevention Grant** for Designing a Solvent recovery roadmap and Computation tool for Industries (October 2018 – September 2020)
- **Winning Team Member** of the **Inspira Health Hack Competition-2018**, conducted at the South Jersey Tech Park, Rowan University, NJ for project proposal on IBS (Irritable Bowel Syndrome) patient management tool
- **Invited Seminar Speaker** by the **AIChE-DVS** (American Institute of Chemical Engineers – Delaware Valley Section) for Continuing Education Program for Professional Development at KBR, Inc. in Newark, DE, June 19th, 2018
- **Winner of the 2018 Rowan Seed Funding Award** for the project proposal on Understanding Chemotherapeutic Cardiotoxicity in Cancer Patients (July 2018 – June 2019)
- **Invited Panelist** at University of Illinois at Chicago for International Engineering Alumni Q&A Panel (March 14th, 2018 and March 7th, 2017)

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- **Invited Seminar Speaker and Winner of the NSF Advance Travel Grant** for Postdoctoral Seminar at University of Wisconsin-Green Bay (February 3rd, 2017), conducted by the Women and Science Program by UW Oshkosh
- **Best Graduate Research Award** for Women and Gender Studies at UIC's Research Symposium, April 14th, 2014
- **Conference Travel Awards:** FOCAPD 2014, AIChE 2013 (Graduate Student Council at UIC)
- **Awarded Membership of AEMB** (2012-2013), National Biomedical Engineering Honor Society
- **Best Presentation Award** - Chemference National Conference at IIT Kanpur, India, July 13th – 14th, 2010
- **Outstanding Contribution Award** by CHEA (Chemical Engineering Association) at IIT Bombay in recognition of exceptional contribution to the department activities (2008-2010)
- **All India Rank #109 in GATE** (Graduate Aptitude Test for Engineering) -2008 and awarded 2 year scholarship from Ministry of Human Resource Development, India
- **Winner of Prodigy (01/2008) - Chemical Engineering Quiz** at Institute of Chemical Technology (ICT), Mumbai, India

Teaching and Mentoring

- 09/2017 – present **Course Instructor at Rowan University**
- **Process Optimization** – Graduate and Senior level Elective (Spring 2018, Spring 2019)
 - **Process Dynamics and Control** – Required Senior level (Fall 2017, Fall 2018)
- 09/2017 – present **Research Advisor at Rowan University**
- **PhD Students:** John Chea (11/2018 – present), Fred Ghanem (01/2019 – present)
 - **Junior/Senior Engineering Research Clinic Projects** (Fall 2018, Spring 2019)
Students: Katherine Schmidt, Alex D'Aloia, Eric Purcell, Matthew Razze, Zachary Lubelski, Amanda McCahill, Gabrielle Moskalov, Rohan Zia, Amanda Christon, Julia Reily, Vanessa Pierce, Maxim Russ, Anthony Pace, Hannah Work, Jake Stengel
 - **Undergraduate Summer Research Projects** (Summer 2018)
Student: Katherine Schmidt
 - **Junior/Senior Engineering Research Clinic Projects** (Spring 2018)
Students: Ian Dunn, James Dailey, Sean Burnham
 - **Junior/Senior Engineering Research Clinic Projects** (Fall 2017)
Students: Sommer Vandergrift, Ian Dunn, Matthew Schwenger, James Dailey, Chaun Giddings
- 08/2014 - 12/2014 **Teaching Associate - Applied Optimization (University of Illinois, Chicago)**
Taught a section on heuristic optimization methods – Genetic algorithm and Simulated annealing
- 08/2012-05/2014 **Teaching Assistant at University of Illinois, Chicago**
- Introduction to Cell & Tissue Engineering (Spring 2014)
 - Senior Design (Fall 2013)
 - Introduction to Applied Optimization (Fall 2012)
- 04/2012-12/2016 **Undergraduate and High School Student Mentor**
- Mentored undergraduate students for the NSF funded REU programs at UIC and Bose-Khorana scholars at UW-Madison
 - Mentored undergraduate and high school students visiting VRI-CUSTOM
- 09/2009-06/2010 **Teaching Assistant at IIT Bombay, India**
- Chemical Engineering Thermodynamics (Jan-May, 2010)
 - Undergraduate Reaction Engineering Laboratory (July-Dec, 2009)
 - Plant Utilities (Jan-May, 2009)
- 06/2009 - 06/2010 **Graduate Student Mentor at IIT Bombay, India**
- Mentored 15 graduate students from M. Tech 2009 batch
 - Responsibilities included providing sound and timely advice regarding academic and extracurricular issues

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Industrial Experience

- 06 - 08/2012 **Summer Internship at Mallinckrodt Pharmaceuticals, St. Louis, MO**
Project: *Kinetic studies and policy predictions for API (active pharmaceutical ingredient) crystallizations*
Mentor: Dr. Keith Tomazi, Technical fellow, Mallinckrodt Pharmaceuticals (formerly Covidien)
- 05 - 06/2007 **Summer Internship at Indian Oil Corporation Limited (IOCL), R&D, India**
Project: *Overview of petroleum refining processes and study of diesel hydrotreating micro-reactor unit*
Mentors: Dr. Madhusudan Sau and Mr. Ganesh Butley, R&D - Hydroprocessing IOCL

Invited Seminars

- 07/2018 **Pazmany Peter Catholic University in Budapest Hungary, July 2, 2018**
Topic: *Methodology for Generation of Efficient Wastewater Treatment Networks and Future Directions with application of P-graph Framework and Sustainability Metrics*
- 06/2018 **KBR, Inc. in Newark, DE as a part of Continuing Education Program offered by AIChE-DVS**
Topic: *Generating Wastewater Treatment Networks: An integrated approach comprising of contaminant properties, technology suitability, plant design and process optimization*
- 01/2018 **Laxminarayan Institute of Technology (L.I.T.), R.T.M. Nagpur University, India, Jan 10, 2018**
01/2018 **Department of Chemical Engineering, Visvesvaraya National Institute of Technology (V.N.I.T.), Nagpur, India, January 9, 2018**
Topic: *Process Systems Engineering in Healthcare & Environment and Graduate Programs at Rowan University*
- 06/2017 **Air Liquide's Delaware Research and Technology Center (DRTC), DE, USA, June 29, 2017**
Topic: *Treatment Strategies and Design Decisions for COPD using Systems Engineering Principles*
- 02/2017 **Department of Chemical Engineering and Materials Science, Wayne State University, Detroit, MI, USA, February 24, 2017**
Topic: *Process Systems Engineering for Treatment Strategies and Design Decisions in Health and Environment*
- 02/2017 **Department of Natural & Applied Sciences, University of Wisconsin-Green Bay (UWGB), WI, USA, Feb 3, 2017**
Topic: *Separation Networks for Recovery of Bio-based Chemicals: Roadmap for Matching Biological and Process Feasibility*

Peer-Reviewed Publications

Journal Publications

1. **Yenkie, K. M.**; Diwekar, U. M. 2018. The 'No sampling' parameter estimation algorithm for stochastic differential equations. *Chemical Engineering Research & Design*, 129: 376-383.
2. **Yenkie, K. M.**; Wu, W.; Maravelias, C. T. 2017. Synthesis and analysis of separation networks for the recovery of intracellular chemicals generated from microbial-based conversions. *Biotechnology for Biofuels*, 10:119.
3. Wu, W.; **Yenkie, K. M.**; Maravelias, C. T. 2016. A superstructure based framework for bio-separation network synthesis. *Computers and Chemical Engineering*, 96: 1-17.
4. **Yenkie, K. M.**; Wu, W.; Clark, R. L.; Pflieger, B. F.; Root, T. W.; Maravelias, C. T. 2016. Roadmap for selection of separation technologies in the recovery of bio-based chemicals: matching biological and process feasibility. *Biotechnology Advances*, 34(8): 1362-1383.
5. **Yenkie, K. M.**; Diwekar, U.; Linninger, A. A. 2016. Simulation-free estimation of reaction propensities in cellular reactions and gene signaling networks. *Computers and Chemical Engineering*, 87: 154-163.
6. Doshi, R.; Diwekar, U.; Benavides, P.; **Yenkie, K. M.**; Cabezas, H. 2014. Maximizing sustainability of ecosystem model through socio-economic policies derived from multivariable optimal control theory. *Clean Technologies and Environmental Policy*, 1-11.

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7. **Yenkie, K. M.**; Diwekar, U. 2014. Uncertainty in clinical data and stochastic model for in-vitro fertilization. *Journal of Theoretical Biology*, 367: 76-85.
8. **Yenkie, K. M.**; Diwekar, U. 2014. Comparison of optimal control methods for customized drug dosage prediction in superovulation stage of in-vitro fertilization. *Computers and Chemical Engineering*, 71: 708-714.
9. **Yenkie, K. M.**; Diwekar, U.; Bhalerao, V. 2014. Modeling and prediction of outcome for the superovulation stage in in-vitro fertilization. *JFIV Reprod.Med.Genet.* 2(2):1000122(1-8).
10. **Yenkie, K. M.**; Diwekar, U. 2014. Optimal control for predicting customized drug dosage for superovulation stage of in-vitro fertilization. *Journal of Theoretical Biology*, 355: 219-228.
11. **Yenkie, K. M.**; Diwekar, U.; Bhalerao, V. 2013. Modeling the superovulation stage in in-vitro fertilization. *IEEE Trans. Biomed. Eng.*, 60(11): 3003-3008.
12. **Yenkie, K. M.**; Diwekar, U. 2013. Stochastic optimal control of seeded batch crystallizer applying Ito process. *Ind. Eng. Chem. Res.*, 52:108-122.

Conference Publications

13. Dunn, I. C.; **Yenkie, K. M.** 2018. Prediction of Optimal Chemotherapy Dosing Regimens: Balancing Tumor Degradation and Toxicity Effects (Paper MoAPo1.13). IFAC's Nonlinear Model Predictive Control (NMPC) Conference, Madison, WI, 19th – 22nd August, 2018.
14. **Yenkie, K. M.**; Diwekar, U. M. 2015. Uncertainty in clinical data and stochastic model for superovulation stage in in-vitro fertilization. Proceedings of the 12th International symposium on Process Systems Engineering (PSE) and 25th European Symposium on Computer-Aided Process Engineering (ESCAPE).
15. **Yenkie, K. M.**; Diwekar, U. M. 2014. Comparison of optimal control methods for customized drug dosage prediction in superovulation stage of in-vitro fertilization. Proceedings of the 8th International conference on Foundations of Computer-Aided Process Design (FOCAPD), 807-812.
16. **Yenkie, K. M.**; Diwekar, U. M.; Bhalerao, V. 2012. Modeling the superovulation stage in in-vitro fertilization. Proceedings of the 11th International symposium on Process Systems Engineering (PSE), 840-844.
17. **Yenkie, K. M.**; Singh, K. P.; Jadhav, S.; Wangikar, P. P. Morphological model to correlate morphology and metabolism in Actinomycetes, Chemference 2010, Session 5:Bioprocess Engineering, S-501, Kanpur, UP, India.

Submitted (Journal papers)

- i. Wu, W.[†]; **Yenkie, K. M.**[‡]; Maravelias, C. T. Analysis of separation networks for the recovery of extracellular chemicals generated from microbial-based conversions. (*submitted to Biotechnology for Biofuels*). [†] Equal Contributions

Conference Presentations, Posters, Abstracts and Attendance

Podium Presentations

1. Christon, A.; Reilly, J.; Slater, C. S.; Savelski, M. J.; **Yenkie, K. M.** Framework for Solvent Recovery, Reuse and Recycling in Industries. *Sustainable Packaging Symposium, 2018*, Rutgers University, NJ
2. Burnham, S.; **Yenkie, K.M.**, Cabezas, H.; Friedler, F. Design and Optimization for Generation of Efficient Wastewater Treatment Networks. *Sustainable Packaging Symposium, 2018*, Rutgers University, NJ
3. Dunn, I. C.; **Yenkie, K.M.** Prediction of Optimal Chemotherapy Dosing Regimens: Balancing Tumor Degradation and Toxicity Effects. *AIChE Annual Meeting, 2018*, 97a, Pittsburgh, PA.
4. **Yenkie, K. M.**; Dailey, J. M.; Burnham, S. Generating Wastewater Treatment Networks: An integrated approach comprising of contaminant properties, technology suitability, plant design and process optimization. *ICOSSE (International Congress on Sustainability Science and Engineering) Meeting, 2018*, Cincinnati, OH.
5. Dunn, I. C.; **Yenkie, K.M.** Optimization in Cancer Chemotherapy Regimens. *AIChE's Mid-Atlantic Student Regional Conference, 2018*, Princeton University, NJ. (*awarded first prize in paper presentation competition*)
6. Dailey, J. M.; Burnham, S.; **Yenkie, K.M.** Design of Efficient Wastewater Treatment Networks for Municipal Wastewater Treatment. *AIChE's Mid-Atlantic Student Regional Conference, 2018*, Princeton University, NJ.
7. Wu, W.; **Yenkie, K.M.**; Maravelias, C. T. General bio-separation superstructure optimization framework. *AIChE Annual Meeting, 2016*, 580e, San Francisco, CA.

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8. **Yenkie, K.M.**; Diwekar, U. Stochastic optimal control for prediction of robust drug dosing policies in superovulation stage of in-vitro fertilization. *AIChE Annual Meeting*, 2015, 393d, Salt Lake City, UT.
9. **Yenkie, K. M.**; Diwekar, U. Stochastic optimal control for prediction of robust drug dosing policies in superovulation stage of in-vitro fertilization (ThB3b). *AIChE's 7th Annual Midwest Regional Conference*, 2015, IIT, Chicago, IL.
10. **Yenkie, K.M.**; Diwekar, U.; Linninger, A. Parameter estimation in cellular systems modeled as stochastic differential equations (ThB3f). *AIChE's 7th Annual Midwest Regional Conference*, 2015, IIT, Chicago, IL.
11. **Yenkie, K.M.**; Diwekar, U.; Linninger, A. Parameter estimation in cellular systems modeled as stochastic differential equations. *AIChE Annual Meeting*, 2014, 235g, Atlanta, GA.
12. **Yenkie, K.M.**; Diwekar, U. Uncertainty in clinical data and stochastic model for in-vitro fertilization. *AIChE Annual Meeting*, 2014, 376f, Atlanta, GA.
13. Doshi, R.; Diwekar, U.; Benavides, P. T. ; **Yenkie, K. M.**; Cabezas, H. 2014. Maximizing sustainability of ecosystem model through socio-economic policies derived from multivariable optimal control theory. *AIChE Annual Meeting*, 2014, 562e, Atlanta, GA.
14. **Yenkie, K. M.**; Diwekar, U. Comparison of different methods for predicting customized drug dosage in superovulation stage of in-vitro fertilization (T1B3). *AIChE's 6th Annual Midwest Regional Conference*, 2014, UIC, Chicago, IL.
15. Yenkie, K. M.; Diwekar, U. Comparison of different methods for predicting customized drug dosage in superovulation stage of in-vitro fertilization. *AIChE Annual Meeting*, 2013, 666d, San Francisco, CA.
16. **Yenkie, K.M.**; Diwekar, U.; Linninger, A.; Kim, S. A new method for parameter estimation in stochastic differential equations. *AIChE Annual Meeting*, 2013, 589e, San Francisco, CA.
17. **Yenkie, K.M.**; Diwekar, U. Comparison of different methods for predicting customized drug dosage in superovulation stage of in-vitro fertilization. *INFORMS Healthcare 2013*, MC-06(2), Chicago, IL.
18. **Yenkie, K. M.**; Diwekar, U. Optimal control for predicting drug dosage in superovulation stage of in-vitro fertilization. *AIChE's 5th Annual Midwest Regional Conference*, 2013, Fr2D(1), IIT, Chicago, IL.
19. **Yenkie, K. M.**; Diwekar, U.; Bhalerao, V. Modeling the superovulation stage in in-vitro fertilization (IVF). *AIChE Annual Meeting*, 2012, 312b, Pittsburgh, PA.
20. **Yenkie, K. M.**; Diwekar, U. Optimal control for predicting drug dosage in superovulation stage of in-vitro fertilization. *AIChE Annual Meeting*, 2012, 744ev, Pittsburgh, PA.
21. **Yenkie, K. M.**; Diwekar, U. Optimal control for predicting drug dosage in superovulation stage of in-vitro fertilization. *INFORMS Annual Meeting*, 2012, TD-20(2), Phoenix, AZ.
22. **Yenkie, K. M.**; Diwekar, U. Stochastic optimal control in batch crystallization applying Ito Processes. *AIChE Annual Meeting*, 2011, 131c, Minneapolis, MN.

Poster Presentations

1. McCahill, A.; Moskalow, G.; Zia, R.; Burnham, S.; Lubelski, Z. Effective Design of Wastewater Treatment Systems Under Regional Limitations and Influences. *Sustainable Packaging Symposium*, 2018, Rutgers University, NJ
2. Burnham, S.; Dailey, J. M.; **Yenkie, K.M.** Design and Optimization for Generation of Efficient Wastewater Treatment Networks. *AIChE Annual Student Conference 2018*, Pittsburgh, PA.
3. Burnham, S.; Dailey, J. M.; **Yenkie, K.M.** Design of Efficient Wastewater Treatment Networks in the Pharmaceutical Industry. *ISPE New Jersey Chapter's Student Poster Competition*, 2018, Bristol-Myers Squibb, New Brunswick, NJ.
4. Dunn, I. C.; Schwenger, M. S.; Vandergrift, S. M.; **Yenkie, K.M.** Modeling and optimization in Cancer Therapeutics. *AIChE Delaware Valley Section's Student Poster Symposium*, 2017, FMC Towers, Philadelphia, PA.
5. Dailey, J. M.; Giddings, C. S.; **Yenkie, K.M.** Design and optimization for generation of efficient wastewater treatment networks. *AIChE Delaware Valley Section's Student Poster Symposium*, 2017, FMC Towers, Philadelphia, PA.
6. **Yenkie, K.M.**; Diwekar, U.; Bhalerao, V. IVF modeling, optimal control, and customized drug treatment: Results of the first Clinical trial. *AIChE Annual Meeting*, 2017, 585ae, Minneapolis, MN.
7. Wu, W.; **Yenkie, K.M.**; Maravelias, C. T. A superstructure-based assessment framework for downstream bio-separations. *AIChE Annual Meeting*, 2017, 246i, Minneapolis, MN.
8. Ng, R. T. L.; Won, W.; **Yenkie, K.M.**; Maravelias, C. T. Process systems engineering for biofuels and bio-based chemicals. *U. S. DOE Genomic Sciences Annual Meeting*, 2017. Washington DC.

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9. **Yenkie, K.M.;** Wu, W.; Maravelias, C. T. Assessment of bioseparation technology options for bio-based chemicals generated from microbial cultures. *AIChE Annual Meeting, 2016*, 228dg, San Francisco, CA.
10. **Yenkie, K.M.;** Diwekar, U. Uncertainty in clinical data and stochastic model for in-vitro fertilization. *Health Systems Optimization Workshop at Northwestern University*, 12-13 September, 2014.
11. **Yenkie, K. M.;** Diwekar, U. Mathematical perspective to enhance success rate of in-vitro fertilization by modeling and optimal control. *UIC Research Forum*, 8 April, 2014.
12. **Yenkie, K. M.;** Diwekar, U.; Bhalerao, V. Modeling the superovulation stage in in-vitro fertilization (IVF). *Midwest Biomedical Engineering Career Conference (MBECC) 2013*, UIC, Chicago, IL.
13. **Yenkie, K. M.;** Diwekar, U.; Bhalerao, V. Modeling the superovulation stage in in-vitro fertilization (IVF). *UIC College of Medicine 2012 Research Forum*.
14. **Yenkie, K. M.;** Diwekar, U. Uncertainties and stochastic optimal control in batch crystallization for different types of objective functions. *AIChE Annual Meeting, 2012*, 599f, Pittsburgh, PA.

Conference and Symposiums Attended

1. 9th EESD (Engineering Education for Sustainable Development) Conference, Glassboro, NJ. June 3-6, 2018
2. 1st Annual Faculty Research Day at Rowan University, Glassboro, NJ. March 28, 2018.
3. UIC Women's Health Research Day, UIC Chicago, IL. April 28, 2014.
4. AIChE's 4th Annual Midwest Regional Conference, UIC, Chicago, IL. November 10-11, 2011.

Professional Workshops Attended

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| 08/2018 | Innovation & Entrepreneurship Faculty Certificate Program 2018-19 , attended the Bootcamp and following sessions in 2018. Plan to complete the certification by May 2019. |
| 08/2018 | Chemours Faculty Workshop on Process Safety offered by Center for Chemical Process Safety (CCPS) of the American Institute of Chemical Engineers (AIChE) at Fayetteville, NC. |
| 08/2018 | National Effective Teaching Institute's NETI-1 Faculty Workshop offered by the American Society for Engineering Education (ASEE) at Philadelphia, PA. |
| 05/2018 | NIH Seminar and Workshops on Grant Writing in Washington, D.C., May 1-4, 2018. |

Professional Society Memberships

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| 2011 - Present | American Institute of Chemical Engineers (AIChE) |
| 2011 - Present | AIChE's Computing and Systems Technology (CAST) Division |
| 2012 - Present | Institute for Operations Research and Management Sciences (INFORMS) |
| 2017 - Present | AIChE's Delaware Valley Section (DVS) |
| 2015 - 2017 | University of Wisconsin - Postdoctoral Association (UWPA) |
| 2011 - 2015 | AIChE's Chicago Local Section |
| 2012 - 2013 | Alpha Eta Mu Beta (AEMB) - National Biomedical Engineering Honor Society |

Software Skills

Programming Languages: Matlab, GAMS, Fortran 77, C, Visual Basic 6.0

Software and Packages: SuperPro Designer, OriginLab, HTC Condor - for parallel computing, Cytoscape, Open-Flux, XL Miner, GetData, Simulink

Bioinformatics tools:

Databases - KEGG, METACYC, miRBase, GenBank, EcoCyc, Swiss-Prot, etc.

Sequence alignment tools - BLAST, FASTA, DIALIGN

Heuristic optimization tools: Genetic algorithm and Simulated annealing

Applications: Microsoft Office, Microsoft Visual Studio, LaTeX

Experimental Skills

-IR(Infrared) Spectroscopy

-Reaction Calorimeter

-FBRM(Focused Beam Reflectance Measurement)

-PVM(Particle Vision Microscopy) Imaging

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Languages

English, Hindi, Marathi and German

08/2005 - 05/2008 **Higher Diploma in German Language, Department of Foreign Languages, RTM Nagpur University**
3rd position in the three year course (certificate course, junior and higher diploma)

Professional Services

08/2018-present Member of the Faculty Search Committee, Department of Chemical Engineering, Rowan University

06/2018- present Member of AIChE YPC's (Young Professionals Committee) Publications Subcommittee

09/2017- present Member of Academic Awards Subcommittee of AIChE-DVS (Delaware Valley Section)

2018 Session co-chair for 2018 AIChE Annual Meeting, Pittsburgh, PA

- *Sustainable Energy Generation and Utilization in System Design (CAST 10A)*

- *Process Modeling and Identification (CAST 10B)*

2016 - 2018 Judge for Undergraduate Poster Sessions at 2018 (Pittsburgh, PA), 2017 (Minneapolis, MN) & 2016 (San Francisco, CA) AIChE Annual Meetings

06/2018 - present Reviewer for Chemical Engineering Research & Design, Elsevier

06/2017 - present Reviewer for Clean Technologies and Environmental Policy, Springer

10/2016 - present Reviewer for Journal of Applied Mathematics, Hindawi Publishing Corporation

2015 Session co-chair for 2015 AIChE Annual Meeting, Salt Lake City, UT

- *Design and Operations under Uncertainty-II (CAST 10A)*

2013 - 2014 Reviewer for the Bioengineering Student Journal at the University of Illinois at Chicago

2009 - 2010 Competitions Manager in Azeotropy, Annual Chemical engineering symposium at IIT Bombay

- *Prepared and conducted Chemical Engineering Quiz Competitions (online and onsite)*

- *Formulated and conducted Equipment Design problems*

- *Conducted technical paper and poster presentations*

2007 - 2008 Reviewer for the Technical Souvenir at L.I.T., Nagpur

Extra-curricular Activities and Interests

2017 - present Member of the American Federation of Teachers (AFT) at Rowan University

2017 - present Member of the Association of Asian Professionals at Rowan University (AAPRU)

2015 - 2017 Volunteer for Tzu Chi USA, Madison Chapter

2015 - 2017 Volunteer for Association for Indians in America (AIA), Madison chapter

2016 - 2017 Member of 'Saaz' the Indian Musical Club at UW-Madison

2015 - 2017 Part of the Singing team for Musical events at UW-Madison (IGSA Diwali Night, Geet Purvai)

2012 - 2014 Member of the Bioengineering Organizational Alliance at UIC

2012 - 2014 Volunteer for AIChE Chicago Local section

2011 - 2014 Member of Indian Graduate Students Association (IGSA) at UIC

07/2012 Volunteer for Juvenile Arthritis Foundation Conference in St. Louis, MO

10/2008 Winner of the Inter-hostel Carom General Championship at IIT Bombay

2008 - 2010 Member of the Stage Decoration and Planning Committee for Performing Arts Festival (PAF), IIT Bombay

01/2008 Represented LIT, Nagpur in Young Innovators choice competition (YICC), UICT, Mumbai

03/2008 Joint secretary in 'Umang' the annual social gathering of L.I.T., Nagpur

2004 - 2008 Member of the National Service Scheme (NSS) in L.I.T., Nagpur

2005 - 2008 Member of Team 'Pratibimb' the literary society of L.I.T., Nagpur