

**GAUTHAM KRISHNAMOORTHY**  
*Ann and Norman Hoffman Professor of National Defense/Energetics*  
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## PROFESSIONAL PREPARATION

**Ph.D., Chemical Engineering, University of Utah, Salt Lake City** **2005**  
Guru: Prof. Philip J. Smith

**M.S., Chemical and Fuels Engineering, University of Utah, Salt Lake City** **2002**  
Guru(s): Prof. Edward M. Trujillo, Prof. John M. Veranth

**B.E., Chemical Engineering, Bangalore University, INDIA** **1998**

## PROFESSIONAL DEVELOPMENT

**08/2022 – Present:** Ann and Norman Hoffman *Professor* of National Defense/Energetics (Tenured), University of North Dakota, Grand Forks, ND

**08/2016 – 07/2022:** Ann and Norman Hoffman *Associate Professor* of National Defense/Energetics (Tenured), University of North Dakota, Grand Forks, ND

**08/2011 – 07/2016:** Ann and Norman Hoffman *Assistant Professor* of National Defense/Energetics (Tenure track), University of North Dakota, Grand Forks, ND

**11/2009 - 08/2011:** *Assistant Professor* (Non - Tenure Track), University of North Dakota, Grand Forks, ND

**07/2005 - 10/2009:** Consulting Engineer, ANSYS Inc., Lebanon, NH

## NOTABLE ACADEMIC AWARDS

- The UND Foundation/McDermott Faculty Award for Excellence in Research and/or Creative Activity (2021)
- Olson Professorship, College of Engineering and Mines (Award for Research, Teaching and Good Citizenship), UND (2018 – 2020)
- Outstanding Professor of the Year (Student's Choice Award for Teaching), School of Engineering and Mines, UND (2012)

## AWARDED FUNDING (My share of award money)

- **\$ 1.4 Million+** (as PI), **\$ 1.1 Million+** (as Co-PI/Major-Participant)

## JOURNAL PUBLICATIONS (47 Peer Reviewed Journal Publications)

*Citations:* <http://scholar.google.com/citations?user=TAR4Vw4AAAAJ>

## TEACHING SUMMARY

### Student Assessment of Teaching Scores

- Average from 185 credit hours of on-campus instruction: **4.60/5.0**
- Average from 132 credit hours of distance-education sections: **4.48/5.0**

Student Assessment Score Range	Corresponding Standard	% of course sections in which this range was achieved
0 – 2.5	Poor	0
2.5 - 3.5	Below Standard	1
3.5 – 4.25	Meets Standard	17
4.25 - 4.75	Exceeds Standard	57
4.75 - 5	Exceptional	25

Current Teaching Assignments: (\*New courses developed by me)

CHE 301: Introduction to Transport Phenomena (4 credits) (Fall)  
CHE 305: Separations (3 credits) (Spring)  
CHE 422\*: Capstone in Energetics (1 credit) (On demand)  
CHE 501: Advanced Transport Phenomena (3 credits) (Spring of even years)  
CHE 530\*: Combustion Theory and Modeling (3 credits) (Spring of odd years)  
CHE 531\*: Rocket Propulsion (3 credits) (Fall of even years)  
CHE 532\*: Explosives: Theory and Modeling (3 credits) (Fall of odd years)

Courses Taught in the Past:

Fundamentals of Process Engineering (U. Utah); Chemical Engineering Thermodynamics; Statistics and Numerical Methods; Chemical Engineering Lab III; Chemical Engineering Lab IV; Molecular Thermodynamics and Kinetics; Advanced Separations; Advanced Chemical Engineering Thermodynamics.

### STUDENTS SUPERVISED

**Post - Doc** (1 Current)

**Ph. D**

Graduated (6): David William James, Lucky Nteke Mulenga, Sam Cowart, Evan Lowry, Aaron Koenig, Nasim Gholizadeh

Current (1): DeMarkus Hodge

**M.S**

Graduated (9): Hassan Abdul Sater, Md Ashiqur Rahman, Lauren Clarke, Trevor Siedel, KayLee Smith, Ryder Shallbetter, Monika Kuznia, Evan Bloom, Mohamed Zamzam

Current (1): Luke Holtshouser

**Under-Graduate Research Assistants** (involved 30+ students in research)

**NOTABLE PROFESSIONAL SERVICE ACTIVITIES**

2018 – Current	ABET coordinator (Chemical Engineering)
2012 – 2018	Graduate Program Director (Chemical Engineering Graduate Program)
2012 – 2017	Graduate Program Director (Environmental Engineering, Sustainable Energy Engineering Graduate Programs)

Journal Reviewer (100 + manuscripts reviewed)

Proposal Reviewer (Department of Energy, Department of Defense, NASA)