

Sample #4: Resume STEM

DO NOT PLAGIARIZE THESE EXAMPLES! USE OWN WORDS

Robert Hwang

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SUMMARY

Ph.D. level Chemical Engineer pursuing a Research & Development or Process Development position utilizing analytical, technical, management, and communication skills

- 8 years of research experience in the field of chemical engineering with an emphasis on rheology
- 5 years of experience with formulation, characterization, and simulation of complex fluids
- High-level management skills demonstrated by holding leadership and supervisory positions
- Excellent technical writing and communication skills proven by 2 publications and 5 conference presentations

EDUCATION

Ph.D. Chemical Engineering, University of California (UC), Santa Barbara, CA 01/2016 (Expected)

GPA: 3.89

Dissertation: "Rheology, kinematics, and structure of shear-banding wormlike micelles"

Advisors: Mary Hernandez, Ph.D.

B.S. Chemical Engineering, North Carolina State University, Raleigh, NC 08/2010

Summa Cum Laude

If relevant or well-known, you can include advisor's name

TECHNICAL SKILLS

Experiment: Rheometry, Particle Tracking Velocimetry (PTV), Small-Angle Light Scattering (SALS), Small-Angle Neutron Scattering (SANS), Rheo-NMR, NMR Spectroscopy

Computation: MATLAB, Mathematica, Python, Fortran, Igor Pro, SasView, AspenPlus, R Programming, Origin

Statistics: Data Mining, Time Series Analysis

Lab Management: Standard Operating Procedure (SOP) writing, instrument training and maintenance

Language: Bilingual in English and Mandarin Chinese

PROFESSIONAL EXPERIENCE

University of California, Santa Barbara, CA 09/2010 - Current

Graduate Research Assistant, Department of Chemical Engineering

- Identified the influence of self-assembling structure on the rheology of wormlike micelles through design, execution, and interpretation of experiments/simulations
- Developed advanced method for flow visualization analysis
- Managed lab operation by developing SOPs and providing instrument training and maintenance
- Led 3 junior researchers through instrument training, lectures, and discussions
- Presented in 5 nationwide conferences, drafted 3 annual research reports in response to funding agencies, and prepared 2 articles for high-impact journals

Graduate Teaching Assistant, Department of Electrical Engineering

- Supervised ~20 undergraduate students in the chemical reaction lab and ensured safety
- Led review sessions and elaborated difficult concepts to ~60 students of various knowledge levels
- Provided constructive feedback on students' assignments and reports

WNK Center for Neutron Research, Boston, MA 08/2014 & 04/2015

Visiting Researcher

- Collaborated with staff scientists to perform small-angle neutron scattering (SANS) experiments
- Developed new models to analyze and interpret SANS data (1 publication, in review)

Non-Academic
Job Search

Consider combining objectives & summary of qualifications

Balance between sharing high technical information and transferable skills

North Carolina State University, Raleigh, NC

08/2006 - 08/2010

Undergraduate Research Assistant, Department of Chemical Engineering

- Studied dynamics of signaling pathways relevant to the development of non-alcoholic fatty liver disease
- Delivered or contributed to 3 conference presentations and 2 journal publications

LEADERSHIP EXPERIENCE

Co-chairman, Organization Committee of 6th Biotronics-Clorox Graduate Student Symposium

Department of Chemical Engineering, UC Santa Barbara

04/2014 - 10/2015

- Supervised 6 subcommittees to coordinate venue setup, participation, marketing, and budgeting
- Raised funds from industrial partners and managed event budget of ~\$6,000
- Coordinated outreach to ~15 industrial participants and communicated event logistics
- Chaired Bioengineering & Soft Matter presentation and led the discussion of a group of 100+ participants

VOLUNTEER EXPERIENCE

Outreach Presenter, Society of Rheology

10/2013

- Raised public awareness of complex fluid studies through scientific demonstration and communication

Community Service Volunteer, North Carolina State University

03/2007

- Painted houses for residents in the community of Bryan/College Station

AWARDS

Student Member Travel Grant Recipient, Society of Rheology

2015

Outstanding Undergraduate Research Award, Department of Chemical Engineering, NC State University

2009

Undergraduate Research Scholar, NC State University

2009

Undergraduate Summer Research Grant Recipient, College of Engineering, NC State University

2008

Ruth and William J. Smith '52 Scholarship, Department of Chemical Engineering, NC State University

2007

RELEVANT PUBLICATIONS

1. **R. Hwang**, M.C. Roberts, L. Patricks, M.E. Helgeson, "Distinguishing chemical components of various samples", *In preparation*.
2. **R. Hwang**, L. Smith, M.E. Hansen, "Probing the influence of linear processes on various samples", *Journal of Rheology* (in review).

RELEVANT PRESENTATIONS

1. **R. Hwang**, M.C. Roberts, L. Patricks, M.E. Helgeson, "Distinguishing chemical components of various samples". AIChE Annual Meeting, San Francisco, CA (2016).
2. M. Calls, S. Adams, **R. Hwang**, M.E., "Using high tech equipment to analyze the different impacts on various species". American Conference on Neutron Scattering, Modesto, CA (2016).
3. **R. Hwang**, L. Patricks, M.C. Roberts, "Probing the influence of linear processes on various samples; exploring the depths of this research study". Gordon Research Seminar Macromolecular & Polyelectrolyte Solutions, Ventura, CA (2015).
4. **R. Hwang**, L. Patricks, and M.C. Roberts, "Testing and exploring the depths of this research project". 86th Annual Meeting of the Society of Rheology, Boston, MA (2014).
5. **R. Hwang**, L. Patricks, M.C. Roberts, "Effect of curvature on shear banding of wormlike micelles in Taylor-Couette flow". 87th Annual Meeting of the Society of Rheology, Philadelphia, PA (2013).

REFERENCES ←

Optional

Available upon request