Gentry Smith

915 E Warner Ave Guthrie, OK 73044

□ 913-231-3282 | ■ iamgentrysmith@gmail.com | 🛅 iamgentrysmith

Summary.

- Over three years graduate experience in data analysis, tool automation, and computational methods.
- Over seven years experience in various programming languages and the Linux environment.
- Passionate about solving problems with automation and developing new tools to improve user workflow.

Technical Skills

- Python 2, Python 3, Java, R
- Bash, Git, VIM
- Microsoft Office, Apple iWork, Google Drive
- macOS, Windows, Linux, FreeBSD
- Agile, Test-Driven Development

Education _

Oklahoma State University

Stillwater, OK

Dec. 2018

M.S. IN CHEMISTRY

• Focus: Computational Methods.

• Research emphasis on structural conformation prediction and optimization in tetravalent systems.

Southern Nazarene University

Bethany, OK

May 2016

B.S. IN CHEMISTRYMinor in biology.

• Course emphases in physics and computer science.

Technical Experience _

Self-Employed

Oklahoma City, OK

AUTOMATION CONSULTANT

Jan. 2019 - Present

- Independent contractor providing custom automation solutions for repetitive and time-intensive workflow tasks.
- Involved creation and maintenance of software tools that interface with multiple programs to unify the user experience.
- Recent contract involved improving company workflow by 10% through automation tools.

Self-Employed

Oklahoma City, OK

COMPUTER SYSTEMS CONTRACTOR

June 2013 - Present

- As-needed computer specialist providing on-site tech support and customized hardware solutions.
- Prioritized hardware purchases to provide a cost-effective solution and excellent end-user experience.

Nazarene Publishing House

Lenexa, KS

CREATIVE INTERN

TECHNOLOGY INTERN

Summers 2012-2014

- Assisted with various Adobe Creative Suite projects
- Explored public relations applications of 3D printers at conferences.
- Assisted with raw footage ingest into archive.

Southern Nazarene University

Bethany, OK

Jan. - Dec. 2013

- Directly worked with the Vice President of Information Technology.
- Assisted in preparation of smart devices for Board of Trustees meetings.
- Led investigations into possible technologies of interest to the university staff and students.

Research Experience _

Oklahoma State University

Stillwater, OK

MASTER'S GRADUATE RESEARCH

Aug. 2016 - Dec. 2018

- Investigated conformation sampling of tetravalent molecules and ice water structures
- Simplified ice water structure generation
- Created highly parallelized programs to guide a semi-random walk to optimize molecule structure.
- Concluded in verbal defense and Master's Thesis

JULY 1, 2019 GENTRY SMITH · RESUME

Southern Nazarene University

Undergraduate Independent Research

Bethany, OK Aug. 2015 - May 2016

• Led investigation into adsorption properties of graphene on alkenes and alkynes.

• Synthesized and tested properties of graphene with magnetite.

• Designed and built a workstation for basic computational research for the department.

Southern Nazarene University

San Gerardo de Dota. Costa Rica Jan. - May 2014

FIELD BIOLOGY SEMESTER ABROAD

• Identified and measured hundreds of trees in a primary growth plot.

Plotted measurements with collaborative data to measure the effects of climate change on the region.

Presented findings in Spanish to local community

Academic Experience

Oklahoma State University GRADUATE TEACHING ASSISTANT

Stillwater, OK

Aug. 2016 - May 2019

Assisted in teaching and grading responsibilities for general chemistry courses.

• Strengthened leadership and mediation skills as an intermediary between students and head professor.

Average 4.65 / 5.00 rating on instructor evaluations.

Southern Nazarene University

Bethany, OK

LAB ASSISTANT

Aug. 2014 - May 2016

• Assisted in instruction of introductory chemistry lab experiments.

• Led multiple lab experiments while the primary instructor was not present.

Honors & Awards _

2018	Recipient, Colonel Whiteley Award, OSU	Stillwater, OK
2017	Recipient, Skinner Fellowship, OSU	Stillwater, OK
2016	Recipient, Skinner Fellowship, OSU	Stillwater, OK
2016	Recipient, Outstanding Senior in Chemistry, SNU	Bethany, OK

Presentations

Master's Thesis Defense Stillwater, OK

THESIS DEFENSE: "EXPLORING CRITICAL CONFORMATIONS: STATE SEARCHING Nov. 2018 AND SAMPLING IN BOTH GERMANIUM CHAINS AND ICE INTERFACES"

Oklahoma State University Cadre Conference

POSTER PRESENTER: "OPTIMIZING MOLECULAR GEOMETRIES USING PARALLEL Nov. 2017 **ENERGY MAPPING**"

American Chemical Society Pentasectional Meeting

POSTER PRESENTER: "OPTIMIZING MOLECULAR GEOMETRIES USING PARALLEL **ENERGY MAPPING**"

Research Evening at the Quetzal Education Research Center

PRESENTER: "ESTABLISHING A BASELINE PLOT IN THE NEOTROPICAL CLOUD FOREST OF COSTA RICA'S LOS SANTOS FOREST RESERVE" {IN SPANISH}

SNU Science Seminar

JULY 1, 2019

PRESENTER: "WHAT'S A 3D PRINTER? A BRIEF INTRODUCTION TO 3D PRINTING"

SNU Undergraduate Research Symposium

PRESENTER: "PRIVATELY PUBLIC: USER PRIVACY IN SOCIAL MEDIA"

Stillwater, OK

Lawton, OK

Mar. 2017

San Gerardo de Dota, Costa Rica

Apr. 2014

Bethany, OK Oct. 2013

Bethany, OK Apr. 2013

GENTRY SMITH · RESUME