CHRISTOPHER LEWIS

A chemist turned data-enthusiast. 9+ years of experience in chemistry research and development. Co-inventor on 9 patents. Currently seeking to advance my skills and career in data analysis and technology.

EDUCATION

2011 | 2006

B.S., Chemistry

Kansas State University — Manhattan, KS

INDUSTRY EXPERIENCE

current | 2021

Research Analyst

Kansas Department of Labor — Topeka, KS - Hybrid Remote

- Utilized R and Python to automate reporting and develop visualizations
- Wrote ad-hoc queries for public requests, federal organizations and media agencies
- Wrote requirements for modifications to the agencie's main workers compensation application, as well as identify and report bugs/ bug testing

2021 | 2015

Technologist II

Halliburton Energy Services — Houston, TX

- Developed a 3d printed slot-flow device and image analysis method for modeling and characterizing dynamic proppant settling
- Helped Design and construct automated core food testing equipment
- Provided guidance to technicians and associates on proccess and safety as well as equipment training

2015 | 2013

Scientist - Chemist

Halliburton Energy Services — Houston, TX

- Developed new products for stimulation of oil wells. Principal developer in foamed crosslinked polymer sealant.
- Organized and instructed laboratory class for field engineers and sales employees
- Resovled technical questions related to product application and QA for conformance product line

2013 | 2011

Associate Scientist

Halliburton Energy Services — Duncan, OK - Houston, TX

- Performed testing as directed and data analysis of results
- Maintained laboratory equiment and inventory
- Helped team to plan and implement move of entire laboratory to new facility

CONTACT

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(785) 640-5404
github.com/ChrLew/
linkedin.com/in/chr-lewis

SKILLS

Programming: R (RStudio, R Markdown, Shiny), SQL, Python, HTML, CSS, Git

Tools: Jira, Confluence, JMP, Tableau, Excel

Other: data analysis, data visualization, statistics, experimental design, science writing

ONLINE COURSES

Coursera: Python for Everybody, UMich;

Made with the R package pagedown.

The source code is available on github.com/ChrLew/cv.

Last updated on 2023-02-27.

RESEARCH EXPERIENCE

2011 | 2010

Undergraduate Research Assistant

Chikan Laboratory

Kansas State University

- Assisted with research in doped Cd/Se quantum-dot synthesis & growth/edtching characteristics
- Collaborated with Univ. of Kansas in image analysis, utilizing EDS for TEM instrument
- Research contributed to and resulted in co-authored paper

PUBLICATIONS

2017

An Investigation into Proppant Dynamics in Hydraulic Fracturing

Ray, B., Lewis, C., Martysevich, V., Shetty, D. A., Walters, H. G., Bai, J., & Ma, J. Society of Petroleum Engineers. doi:10.2118/184829-MS

2015

Long Interval Foamed Diversion Treatment: A Mid- Scale Multizone Diversion Treatment Study

Parton, C., Singh, D., Khamatnurova, T., Lewis, C., & Vo, L. K. Society of Petroleum Engineers. doi:10.2118/174247-MS

2015

Impact of indium and gallium doping on the photovoltaic performance of CdSe quantum dot hybrid solar cells

Scott R, Kirkeminde A, Gong M, Totlebena J, Ren S, Tuinenga C, Lewis C, Luob H, Higgins D, Chikan V. Ecs Transactions. 66: 1-8. DOI: 10.1149/06615.0001ecst

2014

Development of a Polymer Gel System for Improved Sweep Efficiency and Injection Profile Modification of IOR/EOR Treatments

Crespo, F., Reddy, B. R., Eoff, L., Lewis, C., & Pascarella, N. International Petroleum Technology Conference. doi:10.2523/IPTC-17226-MS

2014

Water and Gas Control in Naturally Fractured Carbonate Reservoirs: Development of a Novel Polymer Gel System with Foaming Properties. Society of Petroleum Engineers

Vasquez, J. E., Lewis, C. A., & Eoff, L. S. Society of Petroleum Engineers. doi:10.2118/171883-MS

2013

Recent Advances in Organically Crosslinked Conformance Polymer Systems

Crespo, F., Reddy, B. R., Lewis, C. A., & Eoff, L. S. Society of Petroleum Engineers. doi:10.2118/164115-MS

PATENTS

2020

Methods for Enhancing Propped fracture Conductivity

Nguyen, et al. U.S. Patent #10,647,910

2019

Encapsulated Scale Inhibitor for Downhole Applications in Subterranean Formations

Vo, et al. U.S. Patent #10,421,893

2018

Sealant Compositions for Use in Subterranean Formation Operations

Reddy, et al. U.S. Patent #9,969,923

2018 **Wellbore Servicing Materials and Methods of Making and using Same**
Reddy, et al. U.S. Patent #10,077,397

2017 **Sulfonated Relative Permeability Modifiers for Reducing Subterranean Formation Water Permeability**
Recio, III, et al. U.S. Patent #9,598,631

2017 **Reaction Products of Acrylamide Polymers and Methods for Use Thereof as Relative Permeability Modifiers**
Recio, III et al. U.S. Patent #9,644,130

2017 **Selective Deactivation and Reactivation of HPT-1 Type of Relative Permeability Modifiers**
Reddy, et al. U.S. Patent #9,840,659

2016 **Wellbore Servicing Materials and Methods of Making and Using Same**
Reddy, et al. U.S. Patent #9,441,151

2015 **Hydration Acceleration Surfactants in Conjunction with High Molecular Weight Polymers, And Methods and Compositions Relating Thereto**
Reddy, et al. U.S. Patent #9,051,506