CURRICULUM VITAE

Fatimah Abdullah Aldakheel

CONTACT INFORMATION:

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EDUCATION:

King Abdullah Thuwal, western August 2018 – currently University of Science Region, KSA and Technology PhD. Chemistry Major: chemistry polymer filed • Adviser Prof. nikos hadjichristidis September 2015 – November 2017 DePaul University Chicago, IL, USA M.S. Chemistry/ Thesis Advisor: Dr. Lihua Jin Major: Chemistry Honor Degree • GPA: 3.762/4 • Thesis: ITC study of mimetic compound of copper and manganese enzymes and their

binding with inhibiters. *Related Coursework:* Advanced Organic Chemistry, Statistical Thermodynamics, Computational Chemistry, Polymer Technology, Polymer Synthesis, Group theory and Inorganic structure and reactivity) September 2010 – May 2013

University of Dammam (Colleges of Science for Girls in Dammam)

Dammam, Eastern Region, KSA

2009

B.S. Chemistry

- Major: General Chemistry
- Honor Degree •
- GPA: 4.54/5 •

Laboratory Skills Training:

Instrumental Experience XRD, ITC, UV-Vis, Nano UV-Vis, EXAFS, XANES, FT-IR, NMR (H¹, C¹³ and P³¹), DSC, TGA, HPLC, pH

Additional skills

- Polymer synthesis.
- Inorganic Synthesis. •
- Nano Particles (hydrothermal and sol-gel) Synthesis.

Scientific Trip:

Argonne National Laboratory's Advanced Photon Source synchrotron, Argonne, IL 2016

• I had the opportunity to go within a group to collect Zinc K-edge EXAFS and XANES on the zinc mimetic structures.

PROFESSIONAL MEMBERSHIPS:

•	King Abdul-Aziz &	His Companions	Foundation for Gifted	ness Dammam, Saudi Arabia
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ACADEMIC HONORS AND AWARDS:

Saudi Arabian Cultural Mission (SACM) Chicago, U.S.A 2014-2017 Awarded scholarship to study in the United States based on high academic achievement

Deanship Agency of Students' Affairs of Dammam University

More than five awards for participation in nonacademic activities during the four academic years.

Colleges of Science for Girls in Dammam

Award for the candidates whose GPA is 3.500 or higher, in the academic year 2013.

Sultan Bin Abdulaziz Science & Technology Center, Scitech Khobar, Saudi Arabia 2009

Win a first place on produce a creative program by using Visual basic.

CONFERENCE ATTENDANCE:

- American Chemical Society (Computer in Chemistry), San Diego, USA March 2016 April 2016
- 10th Yao Yuan Biotech-Pharma Symposium, Chicago, USA

VOLUNTEER EXPERIENCE:

Student Scientific Conference	Al-Khobar, Saudi Arabia
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February 2012

• Assisted attendees by helping them to navigate the conference

King Abdul-Aziz & His Companions Foundation for Giftedness

Dammam, Saudi Arabia 2007 – 2008

- Provided customer service, assisted back stage, and monitored concerts
- Introduced guests of honor to large group of attendees

RESEARCH VOLUNTEER EXPERIENCE:

Institute for Research and Medical Consultations (IRMC)

Al-Khobar, Saudi Arabia April 2018

- I involved as a research assistant (volunteer) at the Institute for Research and Medical Consultations (IRMC) in the Nano-Medicine Research Department.
- In this institute, I am maintaining my research lab skills and learning new techniques such as XRD, TEM and SEM, FT-IR, and many other tools.
- In addition, being a research assistant, I analyzed data and worked on papers that have been published or in the process for publication.
- In this research, we mainly focusing on synthesis nano particles materials under Dr. Abdulhadi Baykal.

ADDITIONAL RESEARCH EXPERIENCE:

- Computational Chemistry research under Dr. Ruben Parra
 - Binding energy studies of Cu²⁺ with mimicking amino acid (Ligands) via computational methods with Gaussian 09 software.
- Polymer synthesis research under Dr. Gregory Kharas
 - Synthesis and analysis of novel copolymers of styrene with substituted benzaldehydes

PUBLICATION:

- Fatimah Aldakheel (2017) Toward improving metalloenzyme inhibitor design: a thermodynamic study of small molecule interactions with copper(II), cobalt(II) and manganese(II). The Institutional Repository at DePaul University.
- Kharas, G. B., Schjerven, W. S., Aldakheel, F. A., Crespo, E. J., Gaskell, Z. M., Jordan, K. J., ... & Niyazi, A. H. (2017). Novel copolymers of styrene. 9. Chloro and fluoro ring-disubstituted propyl 2-cyano-3-phenyl-2-propenoates. Journal of Macromolecular Science, Part A, 54(2), 67-70.
- Grice, K. A., Griffin, G. B., Cao, P. S., Saucedo, C., Niyazi, A. H., Aldakheel, F. A., Sterbinsky, G.E. & LeSuer, R. J. (2018). Elucidating the Solution-Phase Structure and Behavior of 8-Hydroxyquinoline Zinc in DMSO. The Journal of Physical Chemistry A, 122(11), 2906-2914.
- Md Amir, H. Gungunes, Y. Slimani, N. Tashkandi, H.S. El Sayed, F. Aldakheel, M. Sertkol, H. Sozeri, M. Manikandan, I. Ercan, A. Baykal. (2018). Mossbauer studies and magnetic properties of cubic CuFe2O4 nanoparticles. Journal of Superconductivity and Novel Magnetism, D-18-00383R1.
- The energetic contribution of metalloenzyme active site cobalt(II) to inhibitor interaction. Philip Burns, Fatimah Aldakheel, Francis Suh and Lihua Jin. (In press)

PRESENTATION:

• Present a poster in (10th Yao Yuan Biotech-Pharma Symposium, Chicago, USA) for "The Energetic Contribution of Metalloenzyme Active Site Cobalt(II) to Inhibitor Interaction" April 2016

SKILLS:

- Computer Proficient: •
 - Microsoft Office Word, PowerPoint, Excel
 - Gaussian 09, ChemDraw, PYMOL.
- Photoshop, Visual basic.

LANGUAGE: • Fluent in both Arabic and English.