**Mohamed Oudah**

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**EDUCATION**

* PhD in Physics at the Kyoto University, Japan, Highest Honors (2015-2018)  
  Thesis: “Superconductivity in Antiperovskite Oxide Sr3-*x*SnO” Supervisor: Yoshiteru Maeno
* MSc in Chemistry-Nanotechnology at the University of Waterloo, Canada (2013-2014)  
  Thesis: “Optimization of Thermoelectric Chalcogenides” Supervisor: Holger Kleinke
* BAS in Chemical Engineering, University of Ottawa, Canada (2006-2012)  
  Thesis: “Ammonia electro-oxidation on alloyed PtIr nanoparticles” Supervisor: Elena Baranova

**EMPLOYMENT & RESEARCH POSITIONS**

**Senior Scientist – SBQMI – University of British Columbia, 100% Research (January 2021-Current)**  
Area of Focus: Growth and low temperature measurements of intermetallics and high-entropy oxides with topology, superconductivity and magnetism, and muon spin relaxation studies.

**SBQMI & UBC-MPI-UTokyo Fellow –University of British Columbia (June 2018 - January 2021)**Advisors: Doug Bonn, George Sawatzky  
Area of Focus: Single crystal growth and low temperature measurements of semimetallic superconductors

**Visiting Fellow –** **Max Planck Institute, Stuttgart (June-December 2018, July-August 2019)**Advisors: Bernhard Keimer, Hidenori Takagi  
Area of Focus: High-pressure synthesis of novel oxides and chalcogenides and crystal growth of oxides

**Visiting Fellow –** **Princeton University (May-July 2019)**Advisors: Leslie Schoop  
Area of Focus: Crystal growth and exploration of new topological square-net materials

**Physics PhD Candidate –** **Kyoto University (April 2015 – March 2018)**Advisor: Yoshiteru Maeno  
Area of Focus: Discovery of superconductivity in the antiperovskite oxides with topological semimetallicity

**Research Assistant –** **University of Waterloo (January 2013 – March 2015)**Advisor: Holger Kleinke   
Area of Focus: Improving the thermoelectric performance of copper chalcogenides for clean energy

**Research Intern –** **NTT BRL, Japan, 100% Rsearch (September 2010 – September 2011)**Advisor: Yasuyuki Kobayashi   
Area of Focus: Characterization of freestanding III-V heterostructure thin-film

**AWARDS & FELLOWSHIPS**

* QuantEmX Exchange Award (2023)
* Best Poster Prize at Conference on Strongly Correlated Electron Systems (SCES), 1st Place (2022)
* SBQMI & MPI-UBC-UTokyo Fellowship (2018-2021)
* MEXT Research Scholarship, Full Scholarship to Study in Japan (2015-2018)
* University of Waterloo Special Graduate Scholarship (2014)
* Andrew Moffitt Memorial Scholarship and University of Ottawa Engineering Scholarships (2009, 2012)
* Wilfrid Brisson Undergraduate Memorial Scholarship and McLimont Scholarship (2009)
* Ontario Professional Engineers Foundation for Education Scholarships (2009)
* Queen Elizabeth Aiming for the Top Scholarship (2006-2009)

**TEACHING & SUPERVISION**

* Leading and teaching seminars on X-ray diffraction and crystal structures at UBC for Quantum Pathways undergraduate students from underrepresented groups in physics (2020-2021)
* Supervision of six undergraduate and seven graduate students at UBC (2019-2024)
* Supervision of the research of international exchange students at Kyoto University (2017-2018)
* Teaching assistant for CHEM 120: Physical and Chemical Properties of Matter and CHEM 123: Chemical Reactions, Equilibria and Kinetics at University of Waterloo (2013-2014)

**ACADEMIC SERVICES**

* CIFAR Spring School on Quantum Materials Organizing Committee (June 2023)
* Session chair at Materials and Mechanisms of Superconductivity (M2S) Conference (July 2022)
* Organizer of seminar on high-entropy materials at University of British Columbia (2021-2023)
* Reviewer for publications in *Advanced Materials* & *APL Materials*
* Provided lab tours at SBQMI for funders from government and industry (2019-present)
* Presented results in press release at Kyoto University to local news papers (Oral-Japanese, 2016)

**INVITED TALKS**

* TU Wien, Austria (2023) Discovery of Superconductivity and Electron-Phonon Drag in the Non-Centrosymmetric Semimetal LaRhGe3
* ETH, Switzerland (2022) - Discovery of Superconductivity in the Non-Centrosymmetric Semimetal LaRhGe3
* Aalto University, Finland (2021) - Unusual Sn State in the Superconducting Disordered Selenide
* Rice University, USA (2020) - Antimonides, Tellurides, and Square-Net Materials
* ETH Zurich, Switzerland (2019) - Exploration of Ag-Bi-O Phases Synthesized Under High Pressure
* Ringberg Meeting, MPI, Germany (2018) - Thermoelectric Properties of BaCu6-*x*(S,Se)Te6
* Hokkaido University, Japan (2017) - Superconductivity in the Antiperovskite Oxide Sr3-*x*SnO
* Yukawa Institute, Kyoto University (2016) - The Superconducting Antiperovskite Oxide Sr3-*x*SnO
* Waterloo Institute of Nanotechnology (2014) - Localized Cu-Ion Mobility in Thermoelectric Chalcogenides

**CONTRIBUTED TALKS**

* APS March Meeting - 2022, Magnetic Order in Ga-Substituted Spinel Type High Entropy Oxide (MnFeCrCoNi)3-*x*Ga*x*O4
* APS March Meeting - 2019, Boston, USA - Towards Topological States in Silver Bismuthates Synthesized under High-Pressure
* JPS Spring Meeting, Osaka, Japan (2017) - Dependence of the Properties of Superconducting Sr3-*x*SnO on Sr Deficiency
* JPS Fall Meeting, Kanazawa, Japan (2016) - Superconductivity in the antiperovskite oxide Sr3SnO

**POSTERS**

* CIFAR Meeting, Montreal, Canada (2023) - Discovery of Superconductivity and Electron-Phonon Drag in the Non-centrosymmetric Semimetal LaRhGe3
* Strongly Correlated Electron Systems (SCES), Amsterdam, Netherlands (2022) - Type-I Superconductivity in Non-centrosymmetric LaRhGe3
* MPI-UBC-UTokyo Meeting, Vancouver, Canada (2019) - Unusual Sn State in the Superconducting Entropy Stabilized Selenide Ag1-xSn1+xSe2
* Spectroscopies in Novel Superconductors, Tokyo, Japan (2019) - Spectroscopy of Ag-Bi-O Phases Synthesized Under High Pressure

**LANGUAGES**

* Native in English and Arabic, fluent in Japanese