**Mariam Haider**

44 Athelstane Rd +44 7444209463

Glasgow G13 3NX, UK [mhaider0627@gmail.com](mailto:mhaider0627@gmail.com)

**EDUCATION**

**University of Glasgow,** Glasgow, UK December 2019 MSc Infection Biology (Virology) with *Merit*

*Master’s Research:* Identification of structural interaction between Human Rhinovirus and surfactant protein D.

**Bryn Mawr College,** Bryn Mawr, PA May 2018

BA in Biology,

*Senior Research*: Identifying antibiotic metabolites capable of regulating antibiotic production and expulsion in *Streptomyces coelicolor.*

**WORK EXPERIENCE**

*Research Technician*, **University of Glasgow Centre of Virus Research**, Glasgow, UK Nov 2019- Mar 2020

* Generated tomograms from raw cryo-electron tomography data and analyzed viral assembly structure and organization by the Amira software. Developed a semi-automated protocol for efficient segmentation of viral structures and data quantification. Trained lab members in the Amira software.

*Teacher’s Assistant,* **Bryn Mawr College,** Bryn Mawr, PA 2016-2018

* Prepared and maintained reagents, stocks, bacterial and flatworm cultures. Performed high-technology experiments in the introductory biology lab for both undergraduate and post-baccalaureate students.

*Prep Chef,* **Bryn Mawr Dining Services**, Bryn Mawr, PA 2014-2018

*Camp Counselor,* **Alford Lake Summer Camp,** Hope, MESummers, 2016-2018

**EDUCATION RELATED EXPERIENCE**

*Master’s Project*, **University of Glasgow Centre of Virus Research*,*** Glasgow, UK May-Sept 2019

* Conducted a 3-month project involved in the use of viral culture growth and purification, and the use of transmission and cryo-electron microscope instruments for structural analysis. Obtained viral 3-D reconstructions by singe-particle analysis.

*Research Assistant,* **Bryn Mawr College,** Bryn Mawr, PA May 2017- May 2018

* The research, sponsored by the Summer Science Research Fellowship, was with Dr. Monica Chander in the Department of Biology. The multi-disciplinary project involved handling bacterial culture, designing and implementing biochemical and genetic assays and its subsequent analysis.

**LEADERSHIP AND ACTIVITES**

*Student Representative*, MSc Infection Biology, University of Glasgow 2018-2019

* Spoke in the interest of the MSc candidates to the lecturers and course administrators to construct a stronger program.

*Team Captain,* Varsity Badminton, Bryn Mawr College 2015-2018

* Planned and instructed daily lessons for the team. Coordinated the annual Bryn Mawr Mainline Doubles Tournament that included players from across the East Coast

**SKILLS**

*Personal:* Problem solving, data interpretation, professional presentation and excellent communication skills.

*Scientific*: Viral and bacterial culture, qPCR, RT-PCR, qRT-PCR, SDS-PAGE, Bradford assay, confocal microscopy, TEM operation, negative stain and cryoEM sample preparation. Tomogram generation and analysis. HPLC, UV-VIS, MS and tandem MS analysis.

*Computer:* Proficient in MS Office. Experience in SPSS, HTML, Python, Linux/Unix. Knowledgeable in Relion 3.0, Chimera, 3dmod, and Amira softwares.

*Language:* Proficient in English and intermediate ability in French, Hindi, and Urdu

References for Mariam Haider

David Bhella

Professor of Structural Virology

University of Glasgow Centre of Virus Research

Sir Michael Stoker Building

Bearsden, Glasgow G61 1QH

[David.Bhella@glasgow.ac.uk](mailto:David.Bhella@glasgow.ac.uk)

+441413303685

David Bhella is my line manager for my current position at the CVR.

Colin Loney

Imaging Manager

University of Glasgow Centre of Virus Research

Sir Michael Stoker Building

Bearsden, Glasgow G61 1QH

[Colin.Loney@glasgow.ac.uk](mailto:Colin.Loney@glasgow.ac.uk)

+441413304025

Colin Loney is a colleague at my current position.

Michaela Conley

Research Assistant

University of Glasgow Centre of Virus Research

Sir Michael Stoker Building

Bearsden, Glasgow G61 1QH

[Michaela.Conley@glasgow.ac.uk](mailto:Michaela.Conley@glasgow.ac.uk)

+441413304025

Michaela is a colleague within my lab at the CVR.