

# Aisha Cheema

Masters of Architecture Candidate at MIT SA+P

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## Experiences

**2024 - Present Teaching Assistant for MIT 4.314** MIT SA+P (Cambridge, MA)

Promptly and clearly communicating class expectations and assignments with students  
Supervising student work within bio-maker space and lab; ensuring proper PPE and procedure  
Providing technical support and training to students newly fabricating or digitally modeling

**2023 - 2024 Rapid Prototyping Lab Assistant** MIT SA+P (Cambridge, MA)

Supervising safety + training within all three shops within the Department of Architecture  
Maintaining machinery and organizing shop according to regulations of cleanliness and safety  
Keeping maintenance and safety logs for shop maintenance and material inventories

**2021 - 2023 Designer** Astra Studios (Columbus, OH)

Leading design and build of pop-up installation for a non-profit organization  
Managing all social media accounts, promotional graphics, and websites for outreach  
Overseeing conceptual/construction design phases for residential/commercial projects  
Organizing application material for use in grants, publications, and seminars

**2019 - 2020 Digital Fabrication Lab Assistant** Knowlton School (Columbus, OH)

Training students in fabrication; like CNC milling, 3D printing, and vacuum forming  
Tracking inventory of materials for ordering; receiving and recording inventory  
Troubleshooting equipment and starting a maintenance record by having a log system  
Supervising students in proper machine use and safe practices in the lab/wood-shop

**2019 Research Assistant** Knowlton School + Dept. of Anthropology (Columbus, OH)

Assembling large oven and wood molds to make prototypes with recycled PET foam  
Generating milling files for all parts of the installation, including PET foam and wood  
Training volunteers on fiberglass/resin application to foam and supervising safety  
Organizing installation efforts; assigning tasks to volunteers and making final changes

## Engagements

**2024 NOMAS Co-Chair of Executive Board**  
Organizing events + communications for student group

**2024 LOTEK - Work in Progress**  
Building and installing LOTEK's gallery exhibition

**2024 stock-a-studio - CLUB KITS**  
Building and Installing stock-a-studio's gallery exhibition

**2024 MIT Graduate Student Union Steward**  
Organizing student grievances and concerns in SA+P

**2024 OFFCUT/CUTOFF Exhibitor**  
Fabricating and exhibiting metal artworks in Bahrain

## Skills

**Digital** Adobe Suite, AutoCAD, Revit, Rhino, VRAY, Enscape, Grasshopper/Python in Rhino, Processing/p5.js, Unity, KARAMBA, Pachyderm, Cargo Site, Squarespace, Figma

**Physical** 3-Axis/5-Axis CNC milling, 3D printing without infill, vacuum forming, pen plotting, 3D scanning, tig welding, metal lost wax casting, metal finishing, compressed earth block casting, laser cutting, wood working, concrete casting

**Language** Fluent in English + Urdu  
Proficient in Punjabi + Hindi