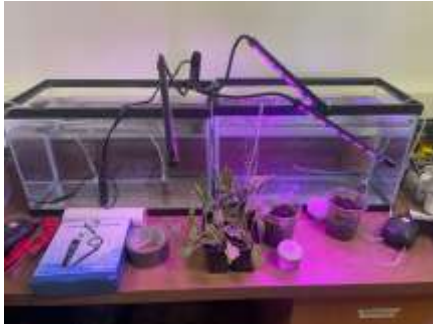

Aquaponics, Art, and Indigenous Food Sovereignty

Claire Gardner, Matthew Manberg, Natalie Erb

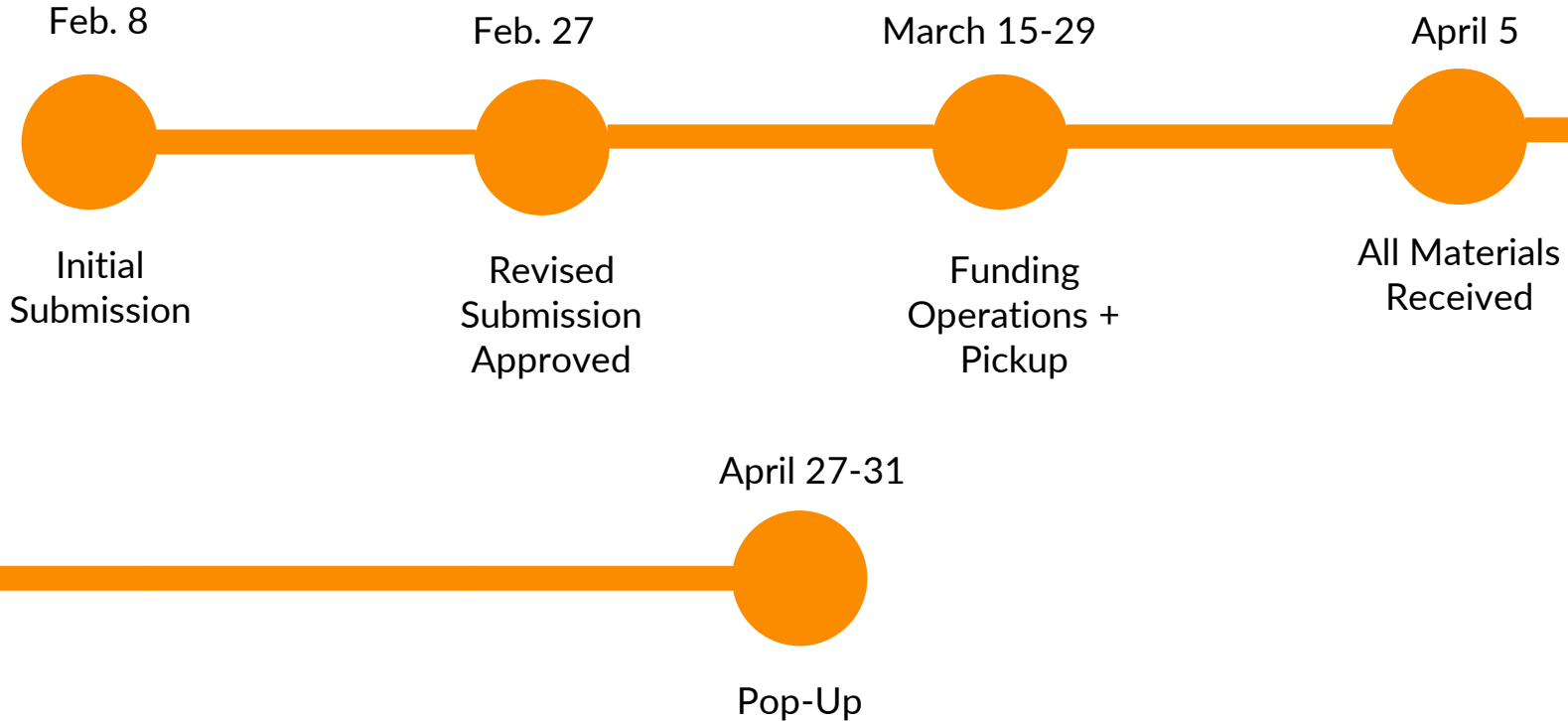
Professor Salvatore & Professor Phillips



Research Question + Methods

- Can Aquaponics build a more sustainable future at Boston University and what factors influence its success?
 - Materials
 - How does research furthers climate, sustainability, and/or equity goals at BU?
 - Pop-Up + Community Outreach
 - Research and Arts Synthesis
-

Timeline



Data Collection + Data Analysis



- Plant Measurements
 - Water Quality
 - ANOVA
 - Regression, OLS, etc...
 - Summary
 - Parameter limitations
-



Poster from Mashpee
Wampanoag Indian Museum

Mashpee Wampanoag Food Sovereignty

- Tribal members focused on reconnecting to land but that's not all that was lost, food traditions lost too
 - Colonization + Christianization
 - Church would select fertile land to belong to them
 - If they wanted to plant there they had to convert and speak English to connect to sacred site, medicine and food
 - Federal Government Assistance
 - Food was almost always canned, stored improperly, broken, lead to illness and broke down relation to food as part of culture and medicine
 - Tribe now has 0.03 (55 acres) of the land they used to have but are working through self-governance to reconnect to food
-

Reconnecting



- Three Sisters plant growing system
 - System is about being connected to environment, observation of land allowed for the science and accuracy of the tribe
 - Observed moon's connection to tides, tribe had an understanding the globe was round pre- contact
 - Aquaphonics could help preserve this knowledge and gift sovereignty to community
 - Native Land Conservancy
 - First Native-run land conservation group east of the Mississippi
 - Offers presentations and walking tours to the public
 - WÔPANÂAK Language Reclamation Project
 - Reclaiming language and teaching it to next generation of children to repair broken circle of cultural loss and pain
-



River Herring



King Phillips Corn

Art Piece

- Made from entirely recycled cardboard
- Will be mounted on a tank



Reimagining of the three sisters as three generations of Wampanoag, eldest saying no to a cross made of canned food

Community Outreach



Environmental Student Organization

Research Symposium

Matt Manberg



—

April 27-31

**Arts Initiative @ BU Office (2nd Floor
GSU)**

Information Session TBD

Thank you. Questions?