

LEADING 2023



Organization: Temple University Libraries

Primary mentor: Dr. Synatra Smith, CLIR/DLF Postdoctoral Fellow in Data Curation for African American Studies

Secondary mentor(s): Holly Tomren, Head of Metadata Strategy and Digitization Services; Dr. Alex Wermer-Colan, Interim Academic Director/Digital Scholarship Coordinator

Project Title	Visualizing Artwork by Black Artists in Philadelphia
Description	Dr. Smith has been working with enhancing the digital visibility of local Black artists and engaging with their artwork in a number of capacities. In 2021, she worked with the LEADING fellows and secondary mentors to ensure these artists had Wikidata records, develop SPARQL queries, and use Python to produce data visualizations. The 2022 LEADING fellows worked on a mapping and statistical analysis project to determine and visualize trends between public art and property values. The 2023 LEADING fellow(s) will receive guidance to develop a project using existing assets (Wikidata, 3D models, maps, and other data) to produce additional data visualizations, develop an Android AR experience, create additional GIS maps, and/or generate models of public art.
Problems/Research Questions	The specific research questions will be developed by the fellow(s). Some potential research questions include: <ol style="list-style-type: none"> 1. How does Wikidata represent the historical diversity of artists in Philadelphia? 2. How does local public art reflect the communities living in Philadelphia? 3. How can immersive technologies for remediating analog materials offer new ways for public art to be contextualized for viewers?
Techniques	GIS mapping, 3D modeling and game development (Unity, Adobe Aero), SPARQL queries, Python for data visualization, linked open data, digital storytelling

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Tools/Languages used	SPARQL, Python, ArcGIS, Polycam LiDAR 3D Scanner, Agisoft Metashape, Blender, Unity, Wikidata, Google Colab, Adobe Aero
Data	<p>Description: Data includes a range of media formats including, SPARQL and Python scripts, 3D models of public art, and GIS maps</p> <p>Data Type: .fbx 3D model files, .gpx GIS shape files, SPARQL and Python scripts</p> <p>Data Size: 10-20 GB</p>
Outcome	To develop one or more ways to analyze, visualize, and present data related to artwork by Black artists in Philadelphia.
Milestone Timeline	<p>Month 1: LEADING fellowship bootcamp</p> <p>Month 2: Introduction to existing assets and exploration of related DH methodologies</p> <p>Month 3: Design a project based on existing and new assets</p> <p>Month 4: Execute project</p> <p>Month 5: Finalize project and upload to project GitHub page</p> <p>Month 6: Prepare project presentation</p>
References	<p>Temple University Libraries departments and resources</p> <ul style="list-style-type: none"> ● Loretta C. Duckworth Scholars Studio ● Charles L. Blockson Afro-American Collection ● Special Collections Resource Center ● Digital collections ● GIS Specialist <p>Past project resources</p> <ul style="list-style-type: none"> ● Wikidata blogs ● LEADING Github repository