

## **Team members:** Kyra and Jada

**Research Question:** How can a social network analysis be used to map historical connections between enslaved people and garden practices and how can we use those results to create educational efforts now?[\[AM2\]](#)

- a. Population: The population that we are focusing on is the people that we can educate on the historical connections between enslaved people and garden practices.
- b. Intervention: Our intervention is using a social network analysis to compare and contrast our topics.
- c. Comparison: We are trying to compare enslaved people's practices verse original garden practices.
- d. Outcome: Our hopeful outcome is to use the results from our social network analysis to create some educational efforts within the Missouri Botanical Garden.
- e. Time: We plan on breaking up our final project and finishing it in seven to eight weeks [\[AM3\]](#)

## Annotated Bibliography

**Answer the following questions below for each of the 10 sources of evidence you gather.**

### Research Question:

### Review Paper 1- Ky

- **Team member evaluation:** The Title of this article is “ The Spatial Factor in African History: The Relationship of the Social, Material, and Perceptual (African Social Studies Series)

- **Citation for the article:** Howard, Allen et al. “The Spatial Factor in African History: The Relationship of the Social, Material, and Perceptual (African Social Studies Series) - PDF Free Download.” *Epdf.Pub*, EPDF.PUB, [epdf.pub/the-spatial-factor-in-african-history-the-relationship-of-the-social-material-an.html](http://epdf.pub/the-spatial-factor-in-african-history-the-relationship-of-the-social-material-an.html). Accessed 28 Sept. 2024.

- **1-paragraph summary:** This review article talks about examining tropical Africa and analyzing the changing relationships of the social, material, and perceptual in regions. This article argues that an interdisciplinary spatial approach is consistent in marrying history and anthropology, challenging earlier views that emphasized rigid kinship structures. With studying people's interactions with the space around them, in this case Africa. Overall this article seeks out to widen the understanding of social identities by incorporating spatial analysis.

- **What information does this source contribute to your research question?** I can't really see exactly how this source can help contribute at the moment. Maybe this could help us use an analysis focusing on analyzing change in relationships socially.

- **How does the source relate to other sources in your bibliography?**

A lot of the articles that me and my project partner have read are all similar in the way that they are talking about either; Botany, slavery, whitewashing, ethnobotany, or reparative justice.

- **What are the strengths and weaknesses of the source?** One of the weaknesses of this article is that it is very short and doesn't give you a lot of information really given the topic at hand.
- **How does the source fit into your research topic? Why is it useful?** This article is useful because it can give us more information on how we can connect two things, even though the two things that we are trying to connect are different from those that were in the article.

## Review Paper 2- Jada

- **Team member evaluation:** Title: Plantation Botany: Slavery and the Infrastructure of Government Science in the St. Vincent Botanic Garden
- **Citation for the article:** Williams, J'Nese. "J'Nese Williams, Plantation Botany: Slavery and the Infrastructure of Government Science in the St. Vincent Botanic Garden, 1765–1820 s." *PhilPapers*, 1 Jan. 1970, [philpapers.org/rec/WILPBS-2](http://philpapers.org/rec/WILPBS-2).
- **1-paragraph summary:** This article is about how slavery had helped shape gardens St. Vincent Botanic Garden in particular. It mainly talks about how slavery has really been a foundation for gardens, deriving from the conditions of plantation slavery in St. Vincent. Not only did it shape the ways of the garden, but it also affected the infrastructure of slavery when it came to botany, which came from slavery, so it could seem as though slavery wasn't that bad. They were treating slaves horribly, but they worked hard behind the scenes, and these characteristics have shaped garden practices that are still found today.
- **What information does this source contribute to your research question?**

This source contributes to our research by discussing enslaved people's vital role in gardens. This helps ours because our paper highlights on slavery and how it connects to the gardens

- **How does the source relate to other sources in your bibliography?**

This source relates to other sources in our bibliography that highlight the history of the plants or the garden or even the forests themselves. Explaining how history plays a crucial role today and how it has shaped the way/ transformed it as well.

- **What are the strengths and weaknesses of the source?**

The strengths of this source are that it highlights the enslaved people's part with the gardens and gives background information. A weakness would be that it only had two figures within the whole article

- **How does the source fit into your research topic? Why is it useful?**

This source fits into our research project because it highlights two main points of our paper. It is useful because it is relevant to our paper.

## Research Paper 1- Ky

- **Team member evaluation:** The title of this article is “Whitewashing Slavery: Legacy of Slavery and White Social Outcomes”

- **Citation for the article:** Reece, Robert L. “Whitewashing Slavery: Legacy of Slavery and White Social Outcomes” *JSTOR*, May 2020, [philarchive.org/archive/OBECBD](http://philarchive.org/archive/OBECBD).

- **1-paragraph summary:** This article talks about the legacy of slavery and its effects. Particularly how an institution that was fundamentally linked to race and racial inequality continues to influence the entire political and criminal justice systems of the area more than a century and a half later. The article investigates how historical reliance on slave labor has long-term benefits for white populations, contributing to contemporary social and economic advantages. While much research on the legacy of slavery focuses on Black disadvantage, this study shifts the lens to examine white advantage, instead of black disadvantage.

- **What information does this source contribute to your research**

**question?** This article provides an important perspective for long-term impacts of slavery beyond the typical focus of Black disadvantage. This is taking a more white advantage type of focus. And this connects to our research question with connecting enslaved people to their or a land.

- **How does the source relate to other sources in your bibliography?**

This source is similar so I may be repeating myself a lot in this section of the questions. A lot of the articles that me and my project partner have read are all similar in the way that they are talking about either; Botany, slavery, whitewashing, ethnobotany, or reparative justice.

- **What are the strengths and weaknesses of the source?**

Some strengths of this source would be the fact that it provides us with different sources of qualitative research and different approaches to restorative justice. Which is ultimately what our goal is of our research question.

- **How does the source fit into your research topic? Why is it useful?**

I feel as if some of these questions have some overlap to them but, I would say this fits in our research topic because our end goal of our project would be to have restorative justice, and this source gives us good points of that.

## Research Paper 2 - Ky

- **Team member evaluation:** The title of this article is “A Case Study in Creating Transparency in Using Cultural Big Data: The Legacy of Slavery Project”

- **Citation for the article:** Lori A. Perine, Rajesh Kumar Gnanasekaran, Phillip Nicholas, Alexis Hill, Richard Marciano, "Computational Treatments to Recover Erased Heritage: A Legacy of Slavery Case Study (CT-LoS)", *2020 IEEE*

*International Conference on Big Data (Big Data)*, pp.1894-1903, 2020. [Show Article](#)  
[Google Scholar](#)

- **1-paragraph summary:** This research article talks about the archives of Maryland. The University of Maryland decided to start digitizing the archives of the free and enslaved Black people. They were seeking to help tell the untold story of the enslaved people around that area. This also talks about the ethical concerns in research and how to navigate it. Though the digitizing of the articles don't really fall into our research question there are some good takeaways from this source.

- **What information does this source contribute to your research question?** The talk of ethical concerns and seeking an untold story both contribute to our research question.

- **How does the source relate to other sources in your bibliography?**

- **What are the strengths and weaknesses of the source?** Some strengths to this article in consideration of our research questions would be that it focuses on marginalized voices and the ethical concerns of research. Some weak points I thought about in our situations was that it was not directly relative to our topic and the focus on digitizing things shaded some important points I thought.

- **How does the source fit into your research topic? Why is it useful?** This source fits in our research because it talks about the under-represented voices, and that is what we want to do but also adding aspects of connecting two things at once.

### Research Paper 3- Ky

- **Team member evaluation:** The title of this article is "Mapping Ethnobotany Research in India"

- **Citation for the article:** Pathak, Manohar. "Mapping Ethnobotany Research in India." *View of Mapping Ethnobotany Research in India*, 12 Oct. 2020, ethnobotanyjournal.org/index.php/era/article/view/2079/1147.

- **1-paragraph summary:** This research article takes you through the research of ethnobotany in India. Looking at the most studied tribes and also looking at the time frame these things were studied. This is a research article so there was quite a bit of data collection and

graphs in this article. Not only was this article important for our research, the topic of ethnobotany is very important and unappreciated in the world we live in, I think personally.

- **What information does this source contribute to your research question?** This source contributes cultural insights and broader implications when looking at our research question.

- **How does the source relate to other sources in your bibliography?** So far I think that most of these sources differ from each other quite a bit. But that is a good thing so we can learn lots of different methodologies in our studies.

- **What are the strengths and weaknesses of the source?**

Some strengths of this source would be that there are a lot of relevance to current issues, not the ones just in India, and the temporal perspectives.

and with these strengths they comprehensively emphasize the significance of this research.

- **How does the source fit into your research topic? Why is it useful?** This source is useful for us because we want to show connections between . So the mapping of ethnobotany research in India, is similar to what we are trying to do.

## Research Paper 4- Jada

- **Team member evaluation:** Title: Slavery Today and Its Social Impact

- **Citation for the article:** Fernández, Enrique Vázquez, et al. “Slavery Today and Its Social Impact.” *SCIRP*, Scientific Research Publishing, 16 Mar. 2020, [www.scirp.org/journal/paperinformation?paperid=99134](http://www.scirp.org/journal/paperinformation?paperid=99134).

- **1-paragraph summary:** This source explains how COVID-19 affected the 17 United Nations Sustainable Development Goals (SDGs). These include the Developmental challenges that imprison the world today. The main challenges, specifically, are modern-day slavery, forced labor, human trafficking, and many forms of child labor.

- **What information does this source contribute to your research question?**

This source contains accurate statistics and expert analysis on systematic slavery during covid 19.

- **How does the source relate to other sources in your bibliography?**

This source, in a way, connects to the Ebotonoy Workbook because it talks about plants but branches off into something else that doesn't necessarily focus on the plants. Still, it does talk about slavery and its impact, like Plantation Botnoy.

- **What are the strengths and weaknesses of the source?**

One strength is that the source thoroughly explains how the pandemic has affected some of our First Amendment rights, which ties into the advocacy of anti-slavery movements. One of the weaknesses is that this source also focuses on other points such as domestic abuse and trafficking which doesn't support the research question.

- **How does the source fit into your research topic? Why is it useful?**

This source supports our research question because it talks about how modern-day slavery has affected the world since the pandemic, as well as how advocacy for anti-slavery movements has also become a part of a Developmental challenge for the world. This source is useful because it contains a thorough analysis of systematic slavery as well as statistics during modern-days

## Research Paper 5- Jada

- **Team member evaluation:** Title: On Nature and Environmental Education: Black Parents Speak from the Inner City

- **Citation for the article:** Kahn Jr., Peter H., and Batya Friedman. "On Nature and Environmental Education: Black Parents Speak from the Inner City." *Environmental Education Research*, vol. 4, no. 1, Feb. 1998, p. 25. *EBSCOhost*, <https://doi.org/10.1080/1350462980040102>.

- **1-paragraph summary:** This article is about the connection between black families and their relationship with nature. Rather it was the good or bad things they just highlighted how



important their relationship with nature is. It plays a role into how their children can be brought up as well. Having a healthy connection with nature can be healthy when raising a family.

- **What information does this source contribute to your research question?**

I wouldn't say that this article necessarily contributes to our paper in a scientific way, but it does give us insight into people's relationships and knowledge of the environment around them

- **How does the source relate to other sources in your bibliography?**

This source relates to other sources in our bibliography because, just like the Plantation Botany talks about the connection between enslaved people and the gardens, this talks about people's relationship with nature.

- **What are the strengths and weaknesses of the source?**

The strength of this paper is that it gives the different perspectives people have when it comes to the environment around them rather than just scientists' points of view. The weakness would be that it doesn't highlight their relationships, specifically gardens

- **How does the source fit into your research topic? Why is it useful?**

It could fit into our research topic because it gives us insight on how others feel when it comes to things around them and how much they realize the factor they play.

## **Research Paper 6- Jada**

- **Team member evaluation:** Value Determinants of Plant Extractivism in Brazil: An Analysis of the Data from the Ibge Agricultural Census

- **Citation for the article:**

Wunder, Sven, Value Determinants of Plant Extractivism in Brazil: An Analysis of the Data from the Ibge Agricultural Census (November 1999). IPEA Working Paper No. 682, Available at SSRN: <https://ssrn.com/abstract=204469> or <http://dx.doi.org/10.2139/ssrn.204469>

- **1-paragraph summary:** This source is about how they're doing an extraction within Brazil for the whole Legal Amazon. Since it's being neglected, and the agriculture is poor, the forest isn't being taken care of; no one is taking care of it. This leads to the natural ecosystem dying, such as the vital animals and plants.

- **What information does this source contribute to your research question?**

This source I would say doesn't contribute much to our research question because it talks about the maintenance of the forest/ environment. If we talk about the health of plants, then this would be resourceful.

- **How does the source relate to other sources in your bibliography?**

I would say that this source relates to the other sources in regards to the actual plants themselves and not the history of them but rather the well-being of them.

- **What are the strengths and weaknesses of the source?**

The strength of this source would be how informational it is and the statistics that it provides along with it. The weakness I would say has to be the connection/ knowledge of the background of the forest itself.

- **How does the source fit into your research topic? Why is it useful?**

I would say it doesn't fit into our research topic because this isn't what our question highlights, but it could be useful if we talked about the maintaining of a garden rather than the correlation of it to slavery.

## Science Communication Paper 1- **Jada**

- **Team member evaluation:** Title: Augmented Reality an Ethnobotany Workbook

- **Citation for the article:** McGrath, Robert E., et al. *Augmented Reality for an Ethnobotany Workbook*. Oct. 2011. [www.ideals.illinois.edu](http://www.ideals.illinois.edu), <https://hdl.handle.net/2142/27715>.

- **1-paragraph summary:** This is about the native/ Indian plants coming from different languages such as Dakota, Lakota, Ho, Chunk, and Omaha. This mainly highlights the computer side of things. More so about the different things you could use to study the various plants that you come across

- **What information does this source contribute to your research question?**

This doesn't really contribute to our research question at all.

- **How does the source relate to other sources in your bibliography?**

I would say that this one does connect to Slavery today and its impacts because it brings up indigenous plants that are still relevant today, just like how slavery still plays a vital role today.

- **What are the strengths and weaknesses of the source?**

The strengths of this source are that it provides computer and software information; the weakness is that it doesn't provide actual information about the plants themselves.

- **How does the source fit into your research topic? Why is it useful?**

This source doesn't fit within our research topic at all to me.

## Science Communication Paper 2- **Kyra**

- **Team member evaluation:** The title of this article is “Piloting Data Science Learning Platforms through the Development of Cloud-based interactive Digital Computational Notebook.”

- **Citation for the article:** Gnanasekaran, Rajesh Kumar, and Richard Marciano. “Piloting Data Science Learning Platforms through the Development of Cloud-Based Interactive Digital Computational Notebooks.” *Proceedings of International Symposium on Grids & Clouds*

2021 — *PoS(ISGC2021)*, Sissa Medialab, 2021, p. 018. *DOI.org (Crossref)*,  
<https://doi.org/10.22323/1.378.0018>.

- **1-paragraph summary:** This source is a little bit different from all of the other types of articles we looked at, because it is a more science based paper. Some key words I think are important to this paper is; computational Thinking Interactive, digital computational, Notebooks computational, archival Science, cloud based digital learning. This science communication paper implements archival science even though we are in a digital age. And with implementing archival science they are also connecting that to some historical data.
- **What information does this source contribute to your research question?** This source contributes a different perspective from some of the different sources I was looking at. Looking at more of a archival science, even though we are in a more digitized age in time.
- **How does the source relate to other sources in your bibliography?** This source does not directly relate to any of the sources that I personally looked at but, this source gave us a different perspective from some of the different sources I was looking at. This source was a science com paper which was a lot different from the other articles I looked at.
- **What are the strengths and weaknesses of the source?** A strength in this article would be that it gives us a step by step process on how to create a cloud based interactive digital computational Notebooks. Which we can use in our final research paper as data.
- **How does the source fit into your research topic? Why is it useful?** This source fits into our research topic because we are on the journey of connecting science to a history of a topic. Connecting two topics can be challenging but it is good for us to have a paper like this along with the research and primary review papers.