

Day 1 | October 1, 2024 – Introduction to DART & Health Services Research

9 am – 10 am	Welcome / Coffee Chat
<p>Learning Objectives:</p> <ul style="list-style-type: none"> - Meet and greet of DART staff and fellow attendees - Free coffee, sweets, and treats (&parking) !! <p>Intended Audience:</p> <ul style="list-style-type: none"> - Any who are interested in learning more about Sheps - Research professionals with an interest in health services (etc.) 	
10 am – 11am	Introduction to the Data Analytics and Research Team (DART)
<p>Presenter(s): Brian Cass, Erica Richman, Ashley Avis, Dan Angelelli</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> - Learn about collaborative opportunities offered through DART team - Understand data sources available to assist with research questions - Be informed on skillsets, areas of expertise, and interests across DART <p>Intended Audience:</p> <ul style="list-style-type: none"> - Researchers interested in collaboration and support on emerging research questions in health services - Early-career research professionals looking to build partnerships an established center with experienced members of the research community 	
11am – 12 pm	Deep Dive on Data Sources
<p>Presenter(s): Dan Angelelli, Peter Newman-Matthews, Jessica Archibald</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> - Understand data security standards at the Sheps Center - Understand available data sources - Understand use cases for data sources <p>Intended Audience:</p> <ul style="list-style-type: none"> - Members of research community (faculty, staff, graduate students) that are interested in using health data sources for research 	
12 pm – 1pm	Break for lunch
1pm – 2pm	Claims 101
<p>Presenter(s): Jessica Archibald, Shweta Pathak</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> - Understand basic structure of claims data - Understand capabilities of claims data for research purposes - Learn limitations of claims data for public health research <p>Intended Audience:</p> <ul style="list-style-type: none"> - Members of research community (faculty, staff, graduate students) that have research questions well-suited for claims-based secondary data - Individuals interested in gaining knowledge of claims data 	
Day 1 Schedule Continued Below	

Day 1 | continued | Introduction to DART & Health Services Research

2pm – 3pm	Basics in Grant Writing, Study Design, and Analysis Planning
<p>Presenter(s): Erica Richman, Shweta Pathak</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">- Understand strategies to use in grant writing- Be informed on overall methods of study design- Be educated on drafting an analysis plan to lead discussions during project kick-off and implementation <p>Intended Audience:</p> <ul style="list-style-type: none">- Early career research looking to better understand tools and methods for health services research- Graduate students looking to gain information about applied tools and methods	
3pm – 4pm	Office Hours / Brainstorming Sessions with DART
<p>Informal time to chat with some of our presenters, featuring expertise in the following areas:</p> <ul style="list-style-type: none">- In Person:<ul style="list-style-type: none">o Study Design / BCBSNC: Shweta Pathako Medicaid Claims / Policy Evaluation: Jessica Archibaldo Research Engagement: Erica Richman- On Zoom:<ul style="list-style-type: none">o AI / Bias: Ashley Aviso Transforming Data: Jake Hyman & Melissa Sandahlo Behavioral Health in Claims: Heather Copley <p>Intended Audience:</p> <ul style="list-style-type: none">- Researchers hoping to get feedback on initial ideas / potential collaborations- Individuals interested in hearing more in-depth about any topics	

Day 2 | October 2, 2024 – Applied Data Science in Health Services Research

10 am – 11am Parsing the Patient: NLP Applications for Clinical Documentation

Presenter(s): Nathaniel Hendrix

Learning Objectives:

- Have a high-level understanding of what NLP is
- Understand public health data sources that are well-suited to NLP
- Be educated on applications of NLP to public health research questions

Intended Audience:

- Public health researchers looking to incorporate new data sources into research
- Data scientists / statisticians in public health research with experience in other data analytical methods wanting to grow understanding of NLP and its applications

11am – 11:30 pm Geospatial Health Data

Presenter(s): Jake Hyman; Heather Copley

Learning Objectives:

- Introduce examples of the data available through the US Census Bureau (and other sources)
- Demonstrate our ability to geographically map hospital locations using the Place of Service File
- Demonstrate how geographic data can be incorporated into our claims data (how accurately can we map providers/patient locations and hospitalizations).

Intended Audience:

- Public health researchers looking to incorporate geospatial data into research
- Public health researchers who have not yet considered incorporating geospatial components into their research

11:30am – 12pm Transforming Claims Data

Presenter(s): Melissa Sandahl

Learning Objectives:

- Learn how to transform health care claims into patient visit summaries for use in Markov chains
- Be familiar with some of the limitations of building visit summaries

Intended Audience:

- Researchers new to working with health care claims or looking for new ways to use claims data
- Data scientists interested in how to prepare data for Markov chains

12 pm – 1pm Break for lunch

1pm – 2pm Bias in AI

Presenter(s): Ashley Avis

Learning Objectives:

- Attendees will leave knowing:
 - o How bias is proliferated through AI
 - o How we can structure projects and teams to identify and correct bias
 - o Resources and tools for identifying and correcting bias

Intended Audience:

- Researchers interested in projects to build AI that could be introduced in a clinical or other public setting
- Data scientists and other practitioners who want to learn how to identify and correct bias

Day 2 Schedule Continued Below

Day 2 | Continued – Applied Data Science in Health Services Research

2pm – 3pm Highlighting Current Projects with DART at Sheps

Presenter(s): Zhitong Yu, Shweta Pathak, Melissa Sandahl, Dan Angelelli, Erica Richman

- Learning Objectives:
- Understand in an applied sense how DART contributes to projects
- Be informed of how ongoing studies are making use of the secondary data sources are being used

Intended Audience:

- Research professionals interested in collaborating with DART and/or Sheps
- Anyone that gets excited by cool, interesting, impactful academic research!

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 - o AI / Bias: Ashley Avis
 - o Transforming Data: Jake Hyman & Melissa Sandahl
 - o Behavioral Health in Claims: Heather Copley
- Zoom:
 - o Study Design / BCBSNC: Shweta Pathak
 - o Medicaid Claims / Policy Evaluation: Jessica Archibald
 - o NLP: Nathaniel Hendrix
 - o Research Engagement: Erica Richman