



Text and Data Mining Panel Discussion

ProQuest Dissertations & Theses

CGS 62nd Annual Meeting | December 8, 2022



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Citation Connections

Dynamic algorithms surface relevant, credible sources

Citation linking extends the path for source collection

The screenshot displays the ProQuest Dissertations & Theses Global interface. The main search results page shows a dissertation titled "Speech Motor Complexity in Childhood Apraxia of Speech" by [Name], New York University, ProQuest Dissertations Publishing, 2019. 13815309. The interface includes several key sections:

- Foundational Research:** A sidebar on the right highlights "Foundational Research on this topic" with a link to "The Treatment Effects of Frequency of Speech Therapy in Early Intervention: A Program Evaluation" by Pope, Danielle, Yeshiva University, ProQuest Dissertations Publishing, 2011.
- Linked References:** A section on the left lists references, including "Model-driven treatment of childhood apraxia of speech: Positive effects of the speech motor learning approach" by van der Merwe, Anke, et al., and "Children's consonant acquisition in 27 languages: A cross-linguistic review" by Mukaid, Sharyna, et al.
- Cited by:** A section in the center lists works that cite the dissertation, such as "Using the Syllable Repetition Task to reveal underlying speech processes in childhood apraxia of speech: A tutorial" by Roehrs, Susan, et al., and "A laboratory control in childhood apraxia of speech in a novel word-learning task" by Case, Julie, et al.
- Similar Dissertations:** A section at the bottom lists related dissertations, including "Motor Learning Guided Treatment with Childhood Apraxia of Speech: Cueing & Feedback" by Williamson, Sarah, East Carolina University, 2011, and "Environmental influences on communication development: Implications for children w..." by Aparicio Betancourt, Mariana, University of Illinois at Urbana-Champaign, 2019.

Arrows indicate the flow of citation connections between these sections, showing how a single source can lead to a network of related research.

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- Angela D'Agostino, VP Dissertations & Theses,
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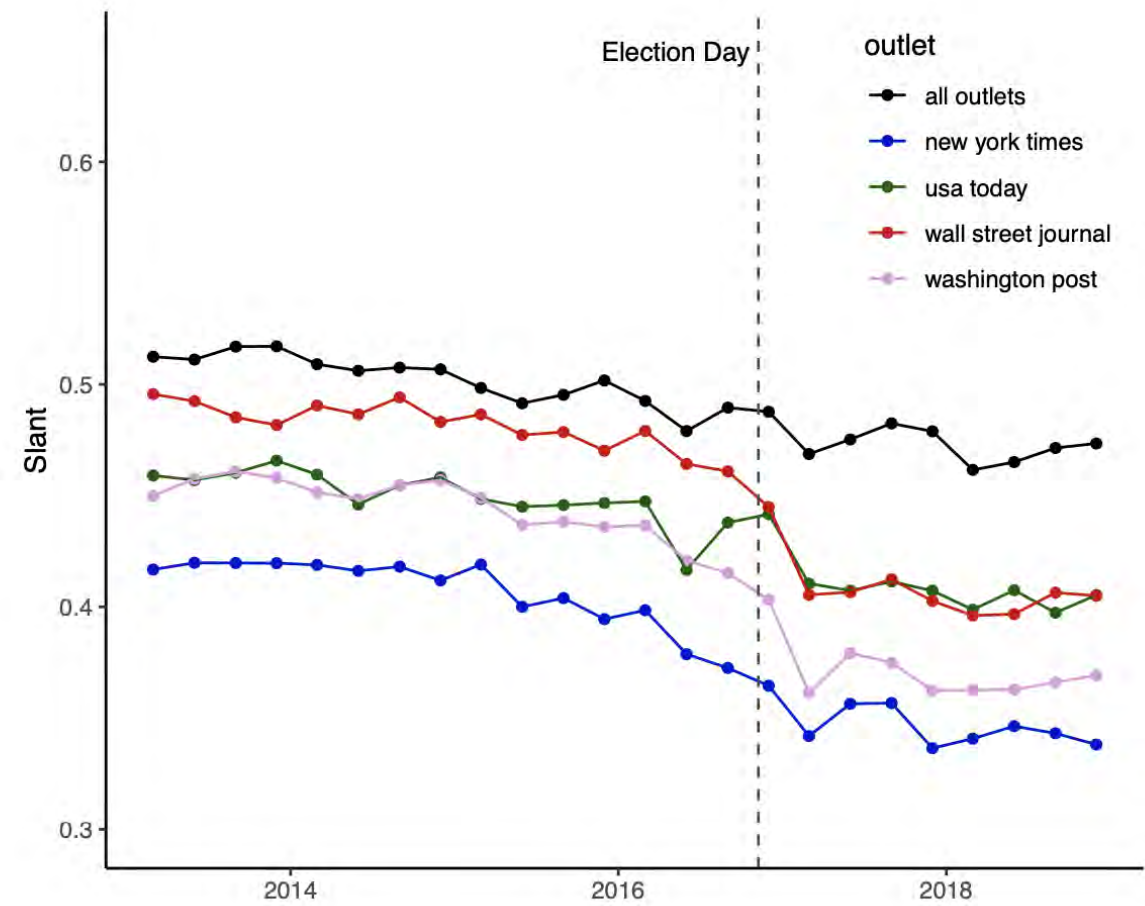
Marginalized perspectives

Journalist Ideology and the Production of News: Evidence from Movers (joint with Jacob Conway)

- Train RoBERTa-based model to measure slant using news articles tweeted by US politicians.
 - Significant improvement over prior bag-of-word methods
- Apply ML model to 20+ million full-text articles in TDM dataset.
- Document novel descriptive evidence on US media slant over time.
- Measure how slant changes as journalists move between outlets (journalist preferences explain 16% of variation).

[LINK TO THE PAPER:](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4295587)

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4295587



Abstract(s) at the core: A case study of disciplinary identity in the field of linguistics

Taylor LiCausi & Daniel McFarland

- Leveraged the ProQuest Thesis ID variable to construct the broader field of linguistics.
- Used dissertation abstracts from 1980-2010 to create a structural topic model (STM).
- Mapped trends of our 40 topics by degree type and calculated topic correlations.

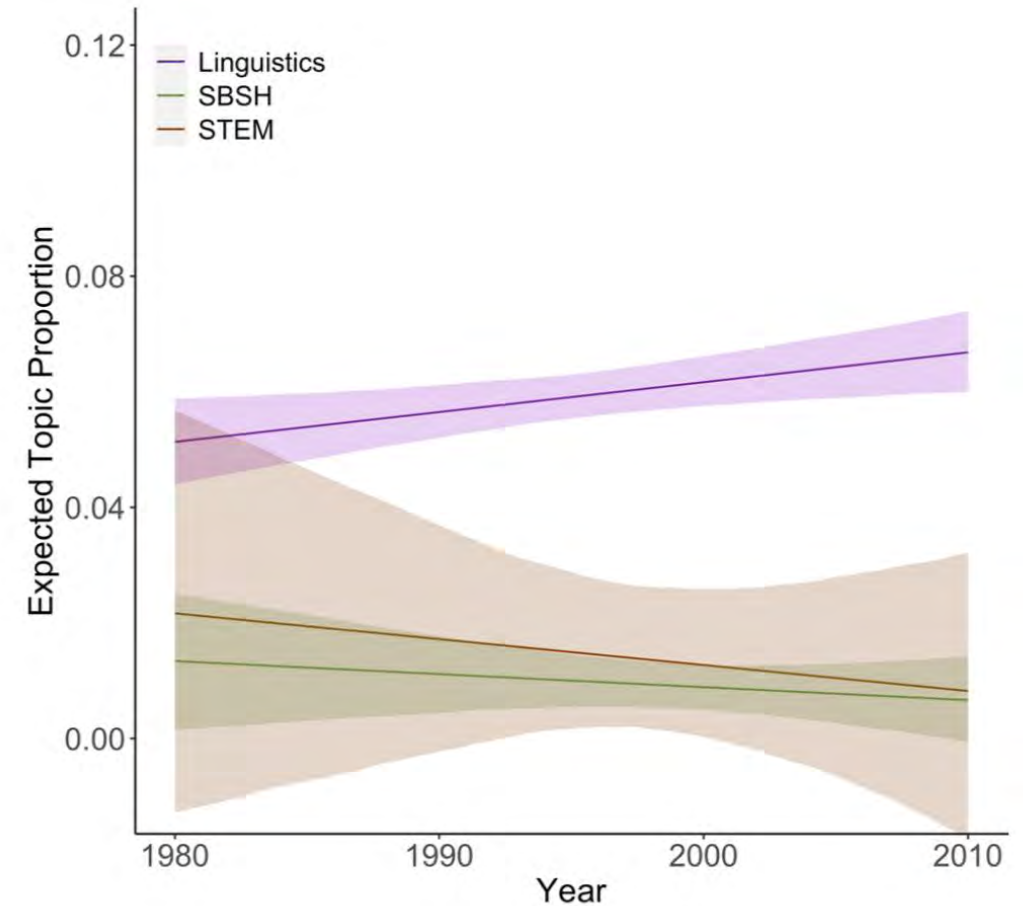


Fig. 1 Expected topic proportion of syntax: main (8), 1980-2010

Results

- Sketched an intellectual topography of the broader field of linguistics
- Identified linguistics' disciplinary core through the topics most distinctive to linguistics degree abstracts.
- Found that STEM disciplines were more likely to engage with linguistics' core than SBSH disciplines.
- Found evidence of differentiation for SBSH and STEM topics.

Link to LiCausi & McFarland's article: [Abstract\(s\) at the core: a case study of disciplinary identity in the field of linguistics | SpringerLink](#)



<https://link.springer.com/article/10.1007/s10734-021-00810-8>


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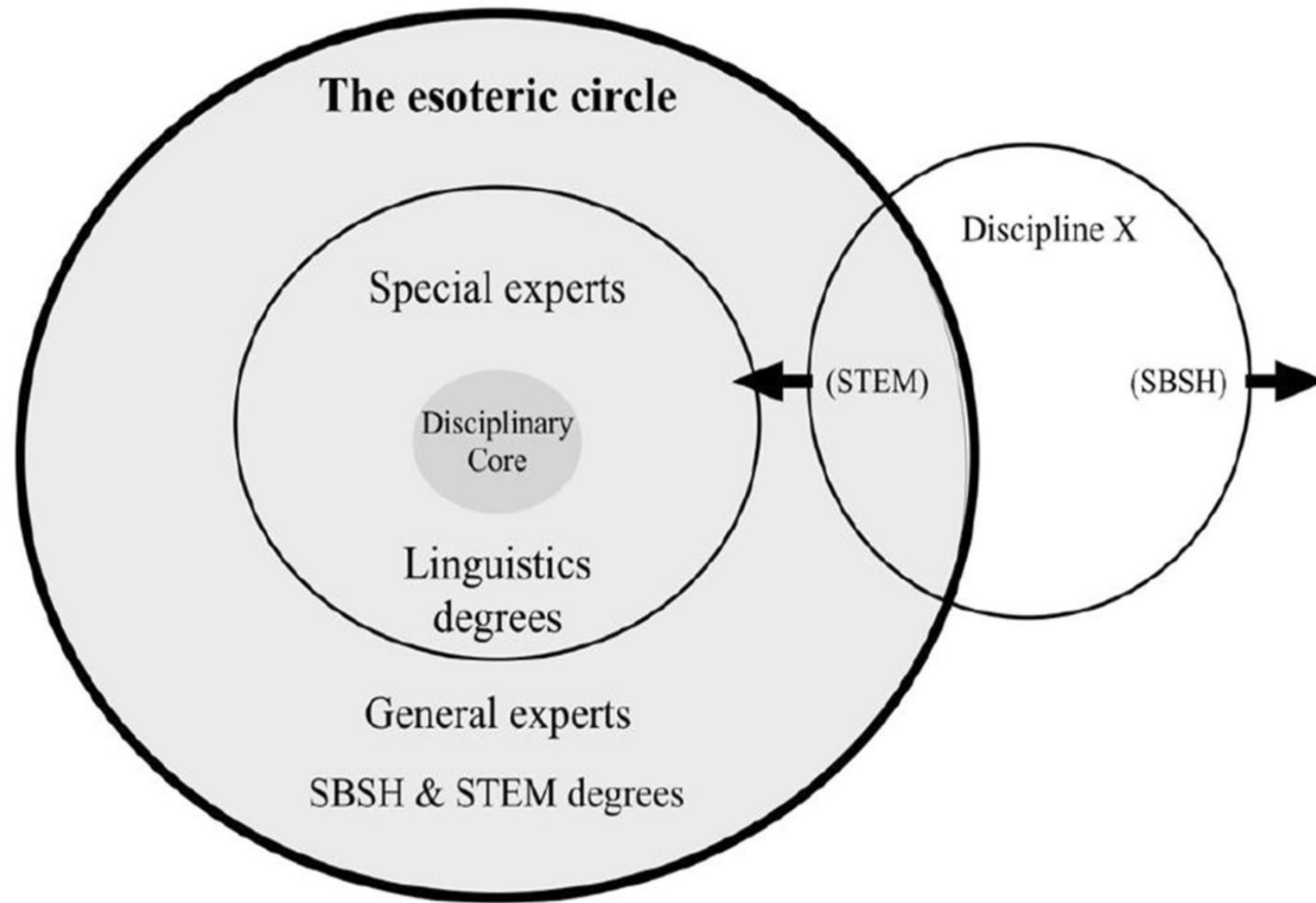



Fig. 13 The esoteric circle of linguistics



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WORKBENCHES for R and Python

VISUALIZATION TOOLS

- Sentiment Analysis
- Topic Modeling
- Geographic Analysis

MOST OFTEN USED FOR

- Information Science
- Social Sciences
- Economics
- Political Science
- Business

The screenshot displays the ProQuest TDM Studio interface, which is divided into two main sections: a Jupyter notebook for data processing and a visualization dashboard for analysis results.

Jupyter Notebook (Top):

- Topic Modeling:** The notebook is titled "Topic Modeling (unsaved changes)". It contains a sample analysis for "Sample Analysis: Topic Modeling NYTs September 11, 2001".
- Method:** The notebook explains that the analysis uses non-negative matrix factorization (NMF) for topic modeling, which is valuable for discovering topics within a dataset of text documents and tracking changes in trends and topics over time.
- Dataset:** The dataset used is 30 days of newspaper coverage from the New York Times, covering the dates of Sept. 1, 2001 to Sept. 30th 2001.
- Code:** The notebook shows Python code for importing necessary modules:

```
In [1]: # Import Operating System modules
import boto3
s3 = boto3.resource('s3')
from zipfile import ZipFile
from os import listdir
from os.path import isfile, join
import os
from time import time
import pprint as pp
import datetime
```

Visualization Dashboard (Bottom):

- Analyze Emotions Over Time:** This section shows a line chart titled "Analyze Emotions Over Time". The chart plots "Emotion Scores" (Y-axis, ranging from 0.00 to 0.24) against "Date" (X-axis, ranging from Sep 01, 2001 to Sep 30, 2001). The chart displays multiple lines representing different emotions: Anger, Disgust, Fear, Sadness, Happiness, Love, Surprise, Neutral, and Other.
- Geographic Analysis:** The dashboard also features a map titled "Project Name: Oil Spills" with a date range of 1993-2020. The map shows the distribution of oil spills across the world, with a large cluster in the North Atlantic Ocean. The map includes a search bar and a list of 100 articles for the cluster.
- Articles:** The list of articles includes titles such as "French Resorts Fight Ocean Oil Spills: Fire Soot, Plan Emerges", "Baby Sea Turtles Availed Over Oil Spill: BABY SEA TURTLES", "Baby Turtles Periled by Oil Spill Flown to Safety: BABY SEA TURTLES", "Great Oil Spill - a Compromise by All Sides: Trend in Santa Barbara", "It Was Only Cattle Feed: Oil Spill Drift Tests Cleanup Operations", "Oil Spills From Tanker Accidents Increase Sharply: OIL SPILL", "Oil Company Fined \$1.000 for Oil Spill: Probation Extended: OIL SPILL", "Oil Spill Blankets Yorba Linda Street: OIL SPILL", and "Specter of Oil Spills Still Haunts Southland's Coast: Coast Haunts".

Thanks for joining us!

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