

A quantitative approach to meta-sciences diversity: the case of philosophy of economics

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Introduction

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 - Gender diversity and the interplay between interdisciplinarity and gender

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 - Specialized philosophy of economics: publications in one or the two main journals (*Journal of Economic Methodology* (focus of paper 2) and *Economics and Philosophy*)
 - Other philosophy of economics: all publications in philosophy journals that have some relationship with philosophy of economics

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1 Topic diversity in philosophy of economics

2 Gender, interdisciplinarity, and topics

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Estrangement hypothesis

- We formulate and assess the “estrangement hypothesis”: Philosophy of economics, propelled by its internal dynamics, has increasingly represented economics in ways that are at odds with the current state of economics.

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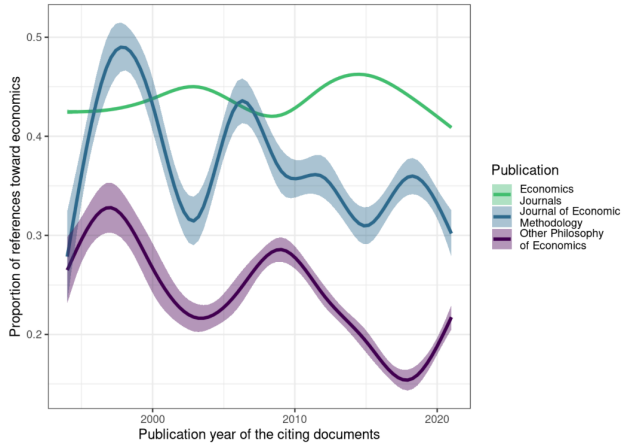
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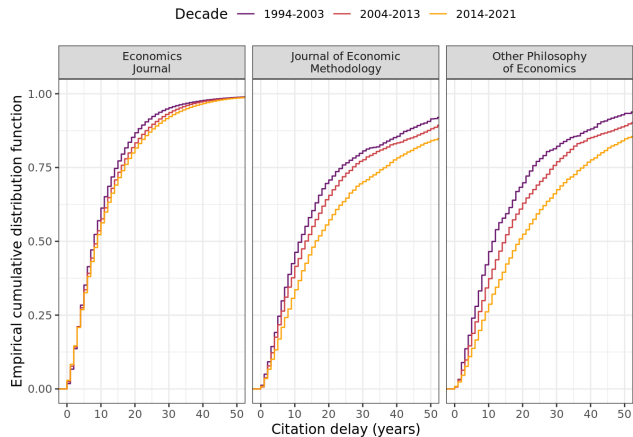
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 - Relevance and engagement concerns (should we be relevant and engage economists?)

Proxy 1: decreasing Citation Intensity



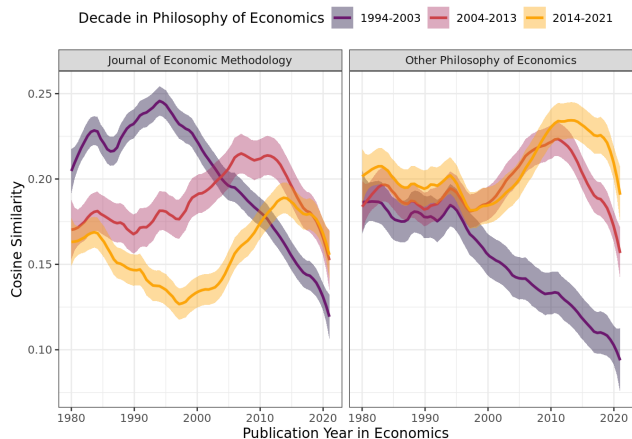
Proportion of citation toward economics from three types of journals

Proxy 2: citation Aging



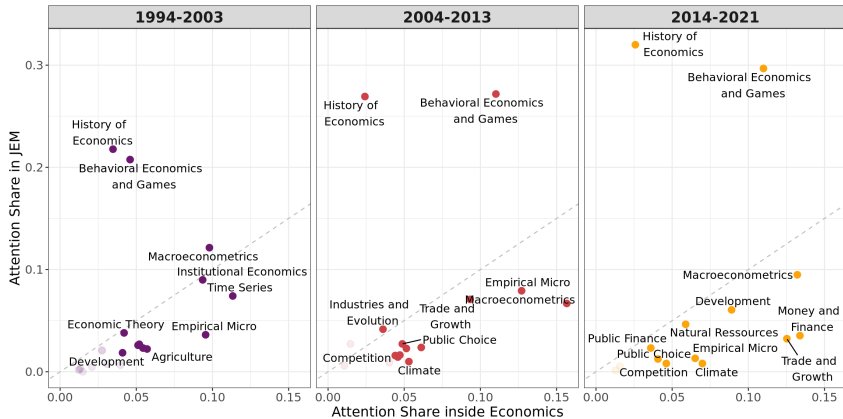
Delay of citation toward economics from three types of journals and over three decades

Proxy 3: citation profile dissimilarity



Similarity of citation profiles toward economics

Proxy 4: diverging attention shares



Attention shares toward specialties in economics

Conclusion

- Citations to economics are less frequent, they grow older, they have become less similar to what economics cites of itself, and large swaths of economics seem simply off the radar of recent philosophy of economics.

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- Philosophical Primacy? (not all scientific developments merit the same degree of philosophical attention)

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Homogeneity compound vs pocket-of-diversity Hypotheses

- Philosophy and economics are two of the least feminized social sciences. Does an interdisciplinary field at the intersection of the two disciplines aggravate the problem ?

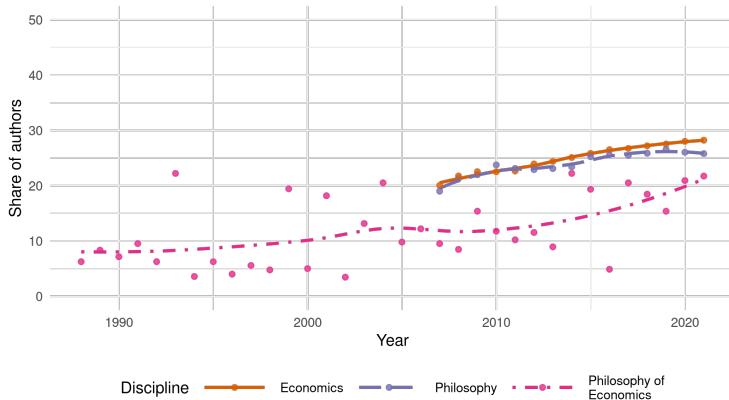
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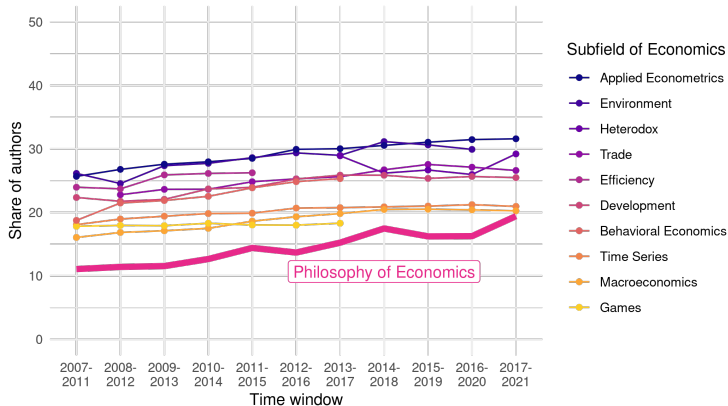
- Philosophy and economics are two of the least feminized social sciences. Does an interdisciplinary field at the intersection of the two disciplines aggravate the problem ?
 - **Homogeneity Compounding Hypothesis:** Philosophy and methodology of economics is even less gender diverse than either economics or philosophy.
 - **Pocket-of-Diversity Hypothesis:** Philosophy and methodology of economics is more gender diverse than either economics or philosophy, perhaps reaching levels of gender diversity comparable to the social sciences and humanities in general.

Gender and parent disciplines



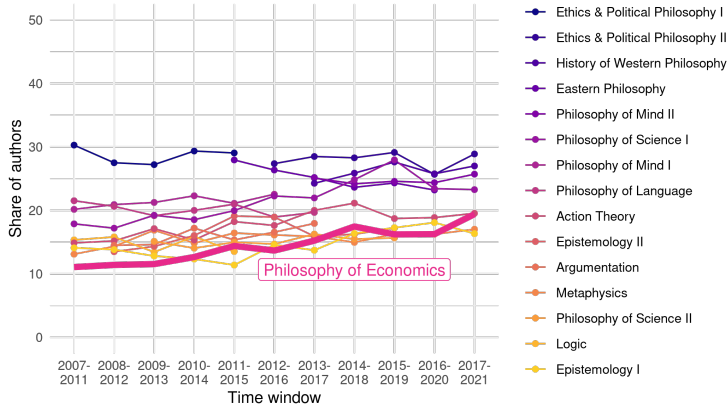
Share of women authors of specialized philosophy of economics compared to the field's two parent disciplines

Gender and parent disciplines



Gender distributions, specialized philosophy of economics compared to specialties in economics

Gender and parent disciplines



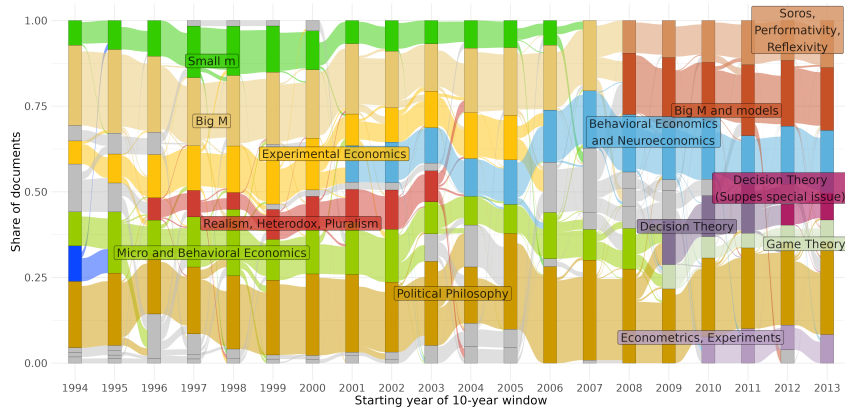
Gender distributions, specialized philosophy of economics compared to specialties in philosophy

Gender and topics

Table 1: Over/under-representation of women authors in the main clusters of philosophy of economics. A positive value signals that the cluster has a higher share of women authors than the field average in the relevant time windows.

| Cluster name (and size) | Mean women share difference |
|---|-----------------------------|
| Realism, Heterodox, Pluralism (n=212) | 0.18 |
| History (n=25) | 0.04 |
| Game Theory (n=149) | 0.04 |
| Decision Theory - Suppes special issue (n=61) | 0.03 |
| Econometrics, Experiments (n=148) | 0.03 |
| Behavioral Economics and Neuroeconomics (n=865) | 0.01 |
| Political Philosophy (n=1 649) | 0.00 |
| Big M and models (n=515) | -0.00 |
| Micro and Behavioral Economics (n=701) | -0.01 |
| Small m (n=421) | -0.01 |
| Big M (n=928) | -0.01 |
| Experimental Economics (n=468) | -0.02 |
| Soros, Performativity, Reflexivity (n=311) | -0.02 |
| Decision Theory (n=183) | -0.04 |

Gender and topics



Evolution of clusters in specialized philosophy of economics

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 - A trend toward gender parity
- Many explanations for the compound effect: gendered publication strategies, the role of mathematics...
- But topics play an important role: it appears that the economics specialties that philosophers of economics happen to shun are those that have the highest share of women authors

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- While philosophy of economics is becoming increasingly diverse gender-wise, it remains largely men-dominated.
- The issue of representativity regarding topics and gender are not unrelated. This clues us into possible ways to encourage more diversity.

Merci de votre attention