MIT Mobility Forum (Spring 2023): Joan Walker - "Moving from Citations to Collective Wisdom in Travel Behavior Research"

Ao Qu

Part I: Literature (for further reading on industrial policy and innovation)
Chu JSG, Evans JA. Slowed canonical progress in large fields of science. Proc Natl Acad Sci U S A. 2021 Oct 12;118(41):e2021636118. https://doi.org/10.1073/pnas.2021636118Links to an external site.

Mustapha Harb, Amanda Stathopoulos, Yoram Shiftan, Joan L. Walker, What do we (Not) know about our future with automated vehicles?, Transportation Research Part C: Emerging Technologies, Volume 123, 2021, https://doi.org/10.1016/j.trc.2020.102948Links to an external site..

Giancarlos Parady, David Ory, Joan Walker, The overreliance on statistical goodness-of-fit and under-reliance on model validation in discrete choice models: A review of validation practices in the transportation academic literature, Journal of Choice Modelling, Volume 38, 2021, https://doi.org/10.1016/j.jocm.2020.100257Links to an external site..

Mark Wardman, V. Phani K. Chintakayala, Gerard de Jong, Values of travel time in Europe: Review and meta-analysis, Transportation Research Part A: Policy and Practice, Volume 94, 2016, https://doi.org/10.1016/j.tra.2016.08.019Links to an external site..

Sander van Cranenburgh, Shenhao Wang, Akshay Vij, Francisco Pereira, Joan Walker, Choice modelling in the age of machine learning - Discussion paper, Journal of Choice Modelling, 2021, https://doi.org/10.1016/j.jocm.2021.100340Links to an external site..

Muhammad Abdullah, Charitha Dias, Deepti Muley, Md. Shahin, Exploring the impacts of COVID-19 on travel behavior and mode preferences, Transportation Research Interdisciplinary Perspectives, 2020, https://doi.org/10.1016/j.trip.2020.100255Links to an external site..

Part II: Recent News

Dr. Nandita Quaderi (2022, July 1). Journal citation reports 2022: Covid-19 research continues to drive increased Citation Impact. Clarivate. Retrieved April 26, 2023, from https://clarivate.com/blog/journal-citation-reports-2022-covid-19-research-continues-to-drive-increased-citation-impact/ Links to an external site.

Abeer Elshater, Hisham Abusaada (2023, March 27). Citing blogs in academic publications: Lessons from urban planning in Covid. The Conversation. Retrieved April 26, 2023, from https://theconversation.com/citing-blogs-in-academic-publications-lessons-from-urban-planning-in-covid-186251 Links to an external site.

Part III: Question and Answer Session

Hani Mahmassani: I didn't think I would have much to say because I usually agree with Joan. However, I think one issue we need to address is the problem we are trying to solve, which you alluded to earlier. In the past, concerted efforts in travel behavior and demand modeling occurred when there were specific questions to answer. I believe that our disconnection from practical applications and use of research results contributes to a proliferation of papers that lack a fundamental body of knowledge. Instead, we have scattered results without a coherent framework for understanding them. To address this, we need to re-engage with the motivating questions that drive research.

Another issue we need to address is the creation of a fundamental body of knowledge. We seem to be focusing more on finding exceptions rather than identifying rules. While it's essential to examine outliers and differences, we also need to focus on building a collective understanding of the rules that govern travel behavior. We need to strive for the same level of rigor and systematic investigation found in fields like physics.

Regarding data sharing, I see it as a double-edged sword. While it's desirable to have data available for others to analyze and build upon, I'm wary of potential negative consequences. In other areas, making data available has led to a glut of research that lacks value. Moreover, when researchers download and crunch data without a meaningful analysis, it can lead to inconsistencies and confusion. Instead, the added value will come from someone who can analyze and synthesize the data in a meaningful way. Therefore, we need to be deliberate and intentional in our approach to data sharing.

Jinhua Zhao: Thank you Hani. Then, I will invite Horng.

Der-Horng Lee: Thank you very much for the interesting talk. I was attracted to the topic, which is why I stayed up, even though it's midnight in China. In my opinion, there's a significant disconnect between research and policy implementation, especially in travel behavior or behavior modeling. The ultimate goal of behavior studies is to drive positive change that can be adopted by government agencies or transportation operators, making our research useful to society. However, based on my experience in transportation projects and planning in Singapore, China, and Southeast Asia, I believe that the disconnect is growing wider. The government agencies or policy implementers often don't see the value in our work, while as researchers, we may have our own agendas, making it difficult to reconcile. Someone in the chat mentioned that government agencies may already have their own ideas before implementation, and I agree with that.

As a research community, we need to focus on impactful research that can lead to real change, even if it's a small change. We need to carefully consider whether our research is generating citations or actually making a difference. There are many examples of both, but I don't want to waste anyone's time going into them.

Thank you again for the talk."

Kara Kockelman: expresses disappointment in not finding appropriate imaging technology for speed enforcement in computer science. She suggests waiting 2 years before sharing data but encourages pre-print sharing on personal websites.

Kay Axhausen: emphasizes the importance of sharing data and code and enforcing a benchmark model to produce comparable results. He also suggests publishing fewer long papers and presenting results in a concise form to build common knowledge and turn towards new policy intentions.

Jinhua Zhao: asks Joan if she has any reactions to what they've heard

Joan Walker: No, no, I think they are fabulous comments. I love the discussion. I will start building on the comment submitted by Chris Cherry.

John Moavenzadeh: interested in papers that ask the "so what" question and focuses on their impact. He raises the issue of academic papers that emphasize the methodology rather than the

findings. He then asks Joan if she has any thoughts on incentivizing greater relevancy and impact in papers?

Joan Walker: supports the idea of sharing data and code, but acknowledges the potential problem of more papers being produced. She believes that science fundamentally requires sharing and suggests additional policies and procedures to deal with proliferation. In terms of incentivizing greater relevancy, she proposes the idea of an oath or standards for papers, including benchmarking and clear impact statements. She also supports the idea of industry and government playing a stronger role in defining research questions and partnering with academics.

John Moavenzadeh: There's been a lot of discussion about data sharing in the chat. Some are hesitant due to the time and cost invested in data collection, while others suggest waiting a couple of years after publication before sharing the data. There's also a suggestion to value quality data collection as a culture. What are your thoughts on this?

Joan Walker: Quality data collection is as important as turning out papers. Kai's journal recognizes collecting great data as a contribution in itself. Embargoing data for a few years after publication makes sense to avoid being scooped. Sharing the whole data is important, including mistakes found in the process. The researcher should be able to milk the data as much as possible without being scooped. We need to embrace the mistakes that we may find in the data and code, as it is part of the process.

John Moavenzadeh: What does Federal policy require for data availability for federally supported research problems?

Joan Walker: discusses the issue of confidentiality in sharing data and notes that the devil is in the details of how confidentiality is handled. She mentions that most people are making statements about data sharing and notes that there is always a clause regarding confidentiality in federal contracts. However, she is not sure about the details of how the clause works.

Kay Axhausen: My comment on data sharing is that nobody can do all the possible analyses with a rich data set. So it's better to share it early while it's still interesting, even if there's a risk of being scooped. The data collected before Covid may be irrelevant now because it doesn't include working from home. So sharing data fully and early is important, and if someone else writes a paper with it, that's okay because there are likely many other papers that can be written with a rich data set.

John Moavenzadeh: Two questions related to Chat Gpt. Claude Marelli asked about the potential for AI models like Gpt to reduce the burden of synthesizing knowledge. Mackenzie Human asked if Gpt could play a role in evaluating the reproducibility of research when code and data are provided. Reproducibility is a key driver for releasing code and data in fields like economics. So, any thoughts on the role of AI in this?

Joan Walker: The role of AI in reducing the burden of synthesizing knowledge and evaluating reproducibility of research are interesting topics. Chat Gpt could be relevant in summarizing academic literature, which could potentially be a solution to the craziness. However, it may not be suitable for conducting research.

John Moavenzadeh: Yes, many of us are exploring the potential of ChatGPT for literature summarization and editing. It could be useful in reducing the workload in these areas.

Jinhua Zhao: concludes the conversation and thanks everyone for joining.

Part IV: Summary of Reflection Memos

In reflections,

James mentioned the need for public-facing reviews that help individuals navigate complexity of fields without confirming their own biases. Also, difficulty in direct comparisons may lead to more advocacy and confirmation bias, resulting in less science.

Nineveh was surprised by the resistance of some academics to share their data and code, citing concerns about the effort put into compiling and cleaning data and the fear of being called out for errors. He questioned the validity of these concerns.

Jay also mentioned that it might be helpful to ensure the public access to transportation research.

Spencer echoed with Joan on the importance of interdisciplinary collaboration in addressing complex transportation problems.

Yunhan raised that a good policy brief is only as effective as the research that informs it. Therefore, collaboration between researchers, policymakers, and practitioners is critical in identifying policy-relevant research questions and delivering high-quality policy briefs.

Sam and Yan-chu also mentioned that sharing data might not be that easy, especially when they are confidential or when others can simply take the data and produce more papers.

Michael talked about the standard required for academic publications. He thought additional groundbreaking insight should be required for local surveys to be accepted as publication material. This would reduce the number of papers while maintaining quality.

My reflection:

I fully agree with Prof. Walker's insights on the six pillars she proposed because I've actually encountered the need for many of them in my daily research. A couple of days ago, I had a conversation with Prof. Henry Liu from UMich. He mentioned that as a field, transportation is sometimes seen as a purely empirical study where researchers only borrow methodology from other subjects. However, we are in fact trying to address some of the most pressing challenges faced by humanity and innovations on both empirical studies and methodologies are required. I think Prof. Walker really pointed out some directions that transportation researchers should be aware of and put some collective efforts.

Part V: Other Resources

Prof. Joan Walker used this website to find the trend in research topics: Dimensions AI: The Most Advanced Scientific Research Database. Dimensions. Retrieved April 26, 2023, from https://www.dimensions.ai/Links to an external site.

A collective effort in the environmental engineering community for forecasting hurricanes: News and events: HFIP: Hurricane forecast improvement program. HFIP. (n.d.). Retrieved April 26, 2023, from https://hfip.org/Links to an external site.
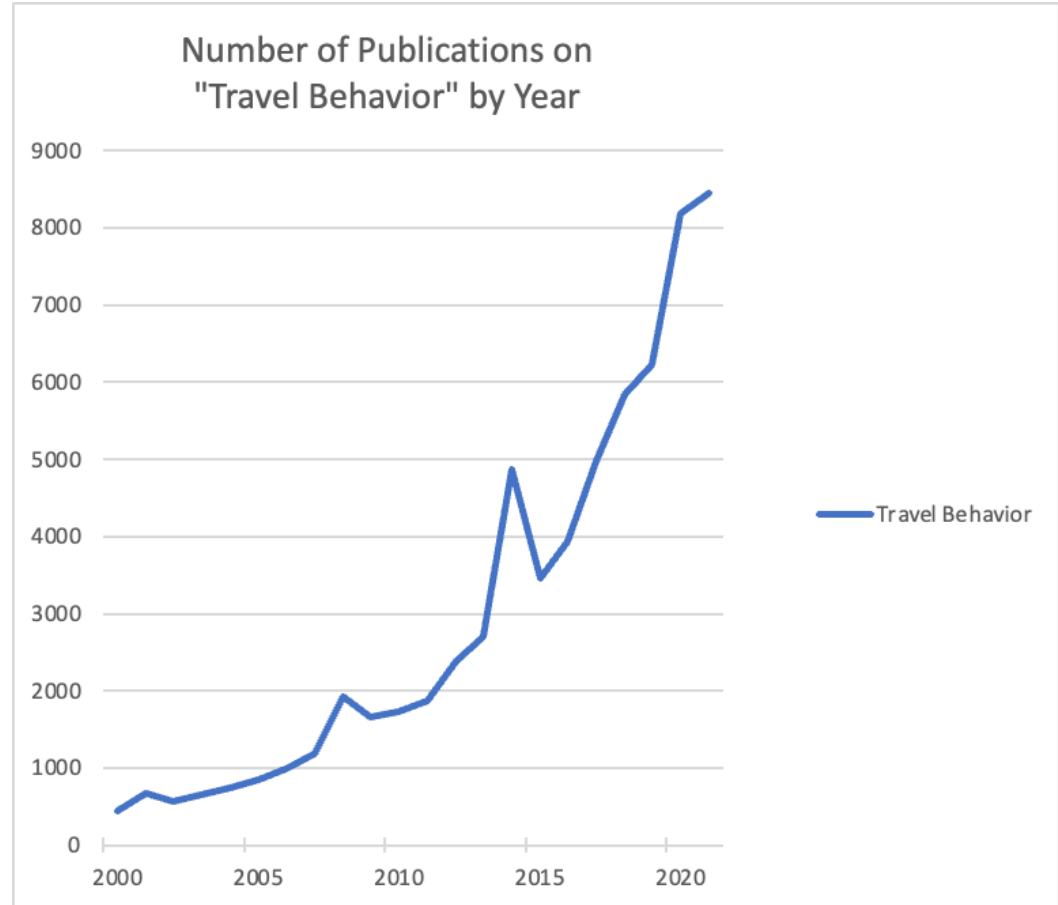
Word association results (73 participants)
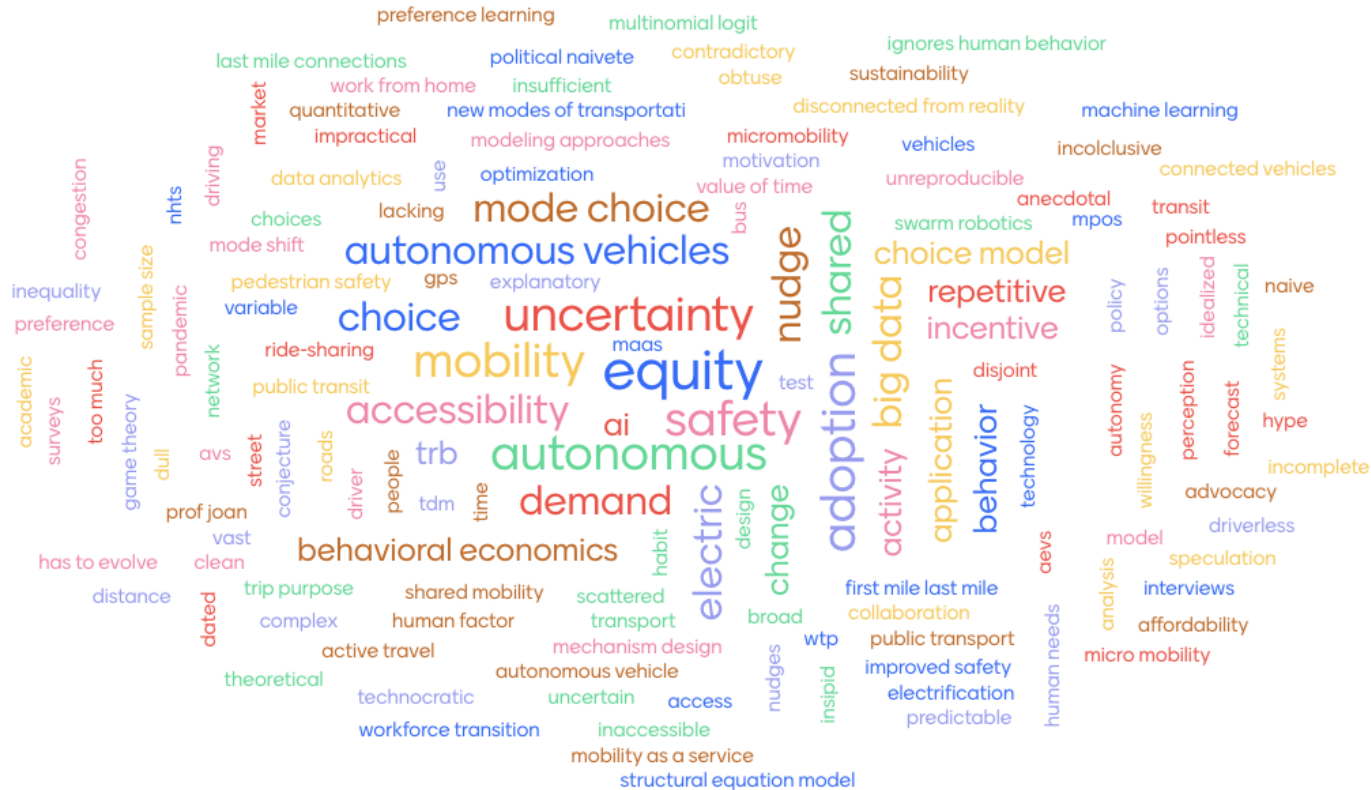
Tremendous growth in number of publications

on "Travel behavior" as a whole →

Number of Publications on "Travel Behavior" by Year

Travel Behavior

Dimensions
https://www.dimensions.ai/

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EXAMPLE of the literature

40 published papers by November 2022 addressing the impact of the Pandemic on behavioral aspects related to Electrification, Automation, and Shared Mobility.

Electric Vehicles (15 papers)

Key takeaways

- **Rise in global EV sales despite decrease in overall vehicle sales and travel restrictions** (Ajanovic, 2022; Augurio et al., 2022; Lieven & Hügler, 2021; Sun et al., 2022)
- **In US, EV sales increased ~200% from 2020 to 2021** (Fischer et al., 2021)
- **Fiscal incentives and supportive regulatory environment key factors in continued growth of EVs through pandemic** (Ajanovic, 2022; Fischer et al., 2021; Lieven & Hügler, 2021)

Key questions

- **Impact of the pandemic on consumer habits**
- **Changes in charging demand and implications for charging infrastructure**
- **Resiliency of EV supply chain**

Autonomous Vehicles (15 papers)

Key takeaways

- **Pandemic halted many AV pilot studies**
- **Overall positive influence on the acceptance of AVs, particularly in growing awareness and interest in the use of AVs in contactless delivery** (Chen et al., 2021; Mantouka et al., 2022; Othman, 2021; Said et al., 2022)
- **One study showed that the pandemic did little to push potential autonomous vehicle users to support adoption** (Horowitz et al., 2022)

Key questions

- **Factors influencing AV adoption**
- **Development of AV technology, and deployment in new applications**

Shared Mobility (17 papers)

Key takeaways

- **Demand for taxis and ride-sharing have decreased by as much as 80%** (Andersson et al., 2020; Said et al., 2021; Zhang et al., 2022)
- **However, the pandemic had a positive influence on car-sharing and bike-sharing** (Hu & Creutzig, 2022; Zhang et al., 2022)
- **Demand is unlikely to return to pre-pandemic levels** (Kiriazes & Edison Watkins, 2022; Loa et al., 2022)

Key questions

- **Impact of COVID on mode choice and intention to use shared mobility modes in post-pandemic future**
- **Speculation about the future of shared mobility: challenges and opportunities**

Literature added in the last 4 months

- 20 additional papers published (40 originally)
- A few broad review papers on travel behavior and the pandemic, with short sections on the trends in automation, sharing, electrification.

Reflection…
Are the results satisfying?

As a BODY OF WORK, lack of coordination

1. Too many papers, difficult to synthesize
2. Lack of clear, compelling set of research questions
3. Lack of convergence on findings
4. Lack of guidance about implications for the future, such as optimal/desirable policies

Academic Impact

Papers
each makes a unique contribution to knowledge
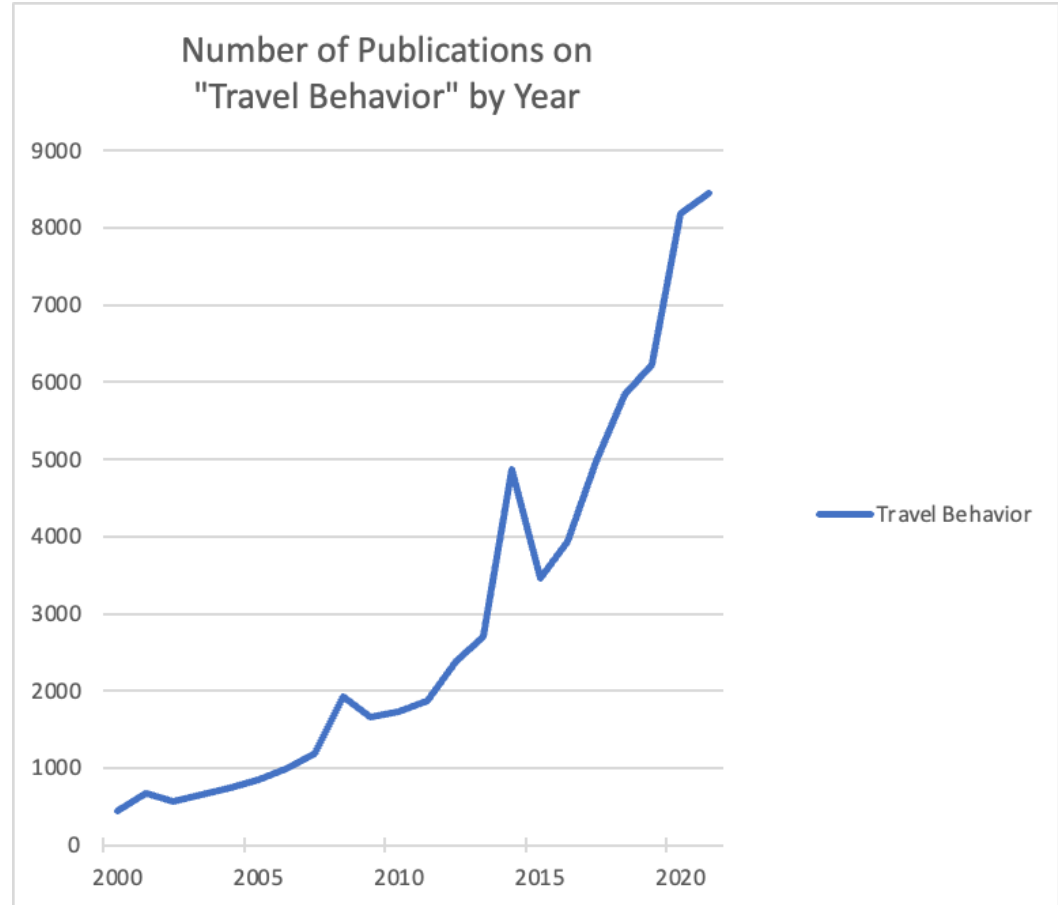
Citations

Societal Impact

Doing good for the world

Tremendous growth in number of publications

on "Travel behavior" as a whole →

Number of Publications on
"Travel Behavior" by Year

Dimensions
https://www.dimensions.ai/

Tremendous growth in number of publications

on "Travel behavior" as a whole

on "Travel behavior" AND "COVID" →

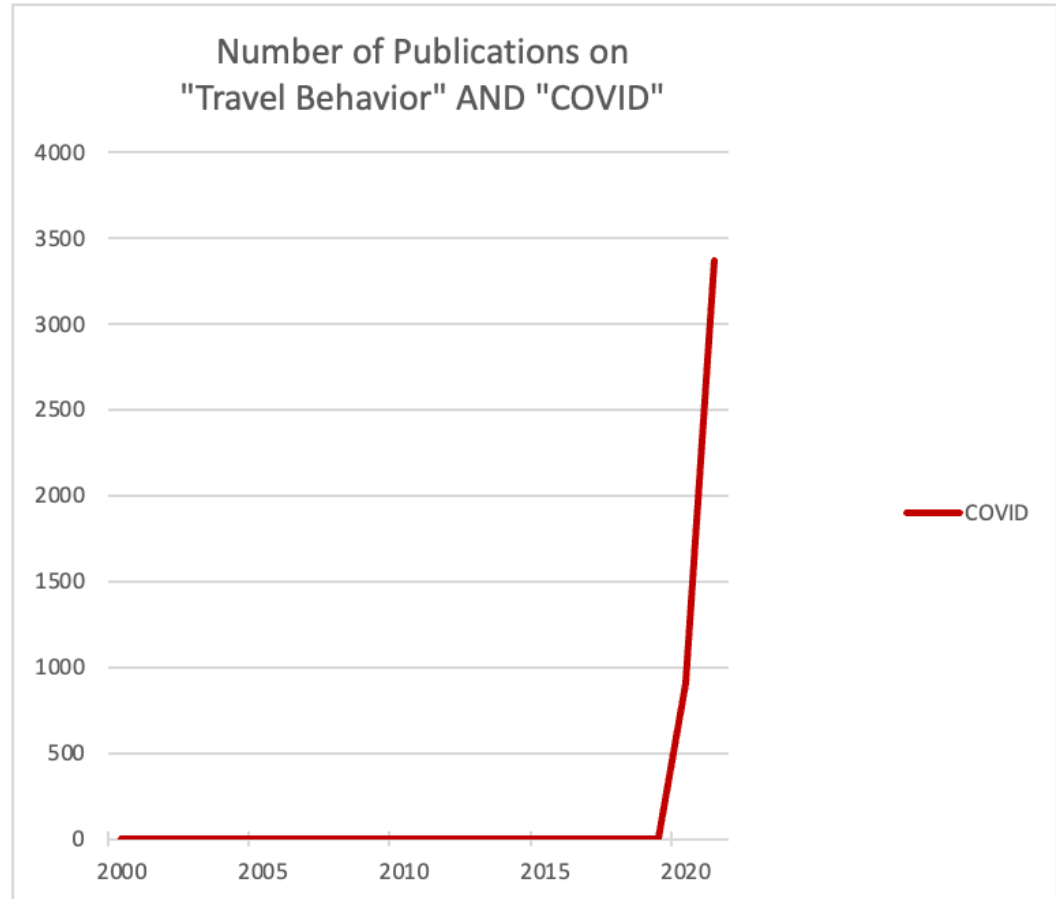Dimensions
https://www.dimensions.ai/

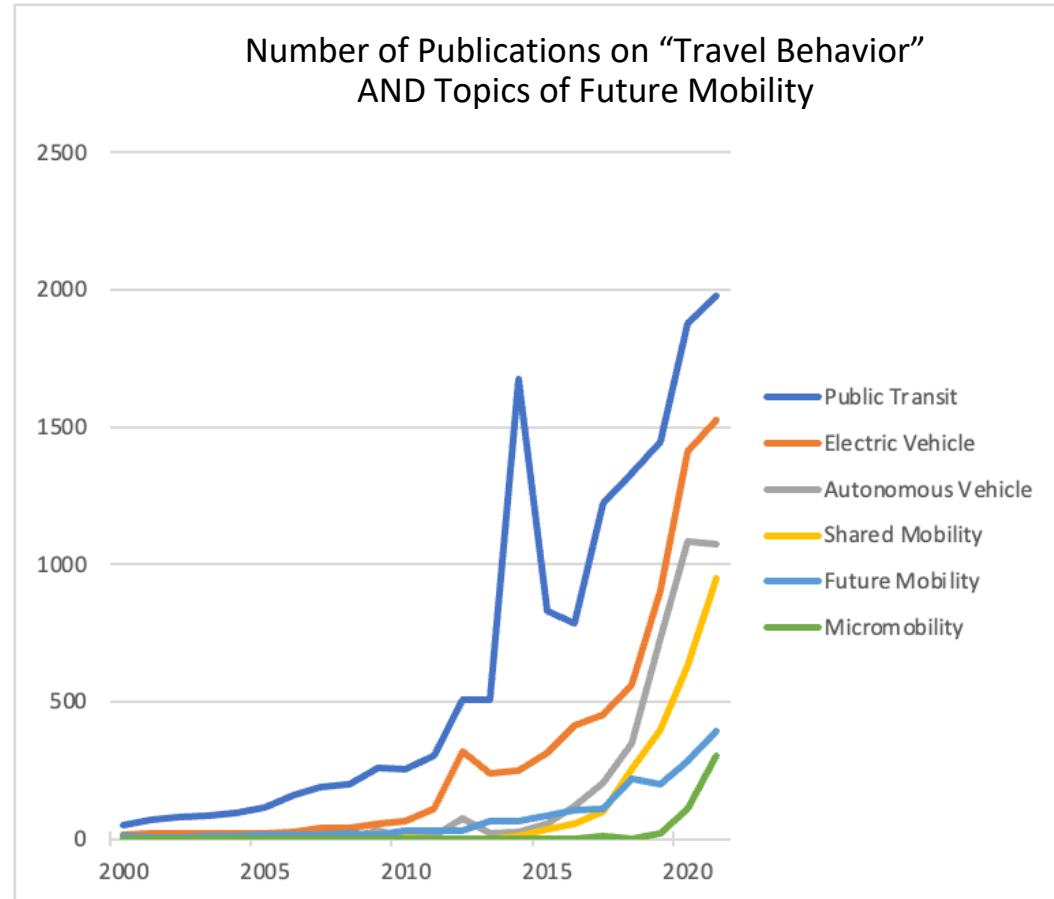Number of Publications on
"Travel Behavior" AND "COVID"

Tremendous growth in number of publications

on "Travel behavior" as a whole

on "Travel behavior" AND "COVID"

on "Travel behavior" AND topics of future mobility. →

Dimensions
https://www.dimensions.ai/

Number of Publications on "Travel Behavior" AND Topics of Future Mobility

Objective

Overwhelming amount of amazing research.

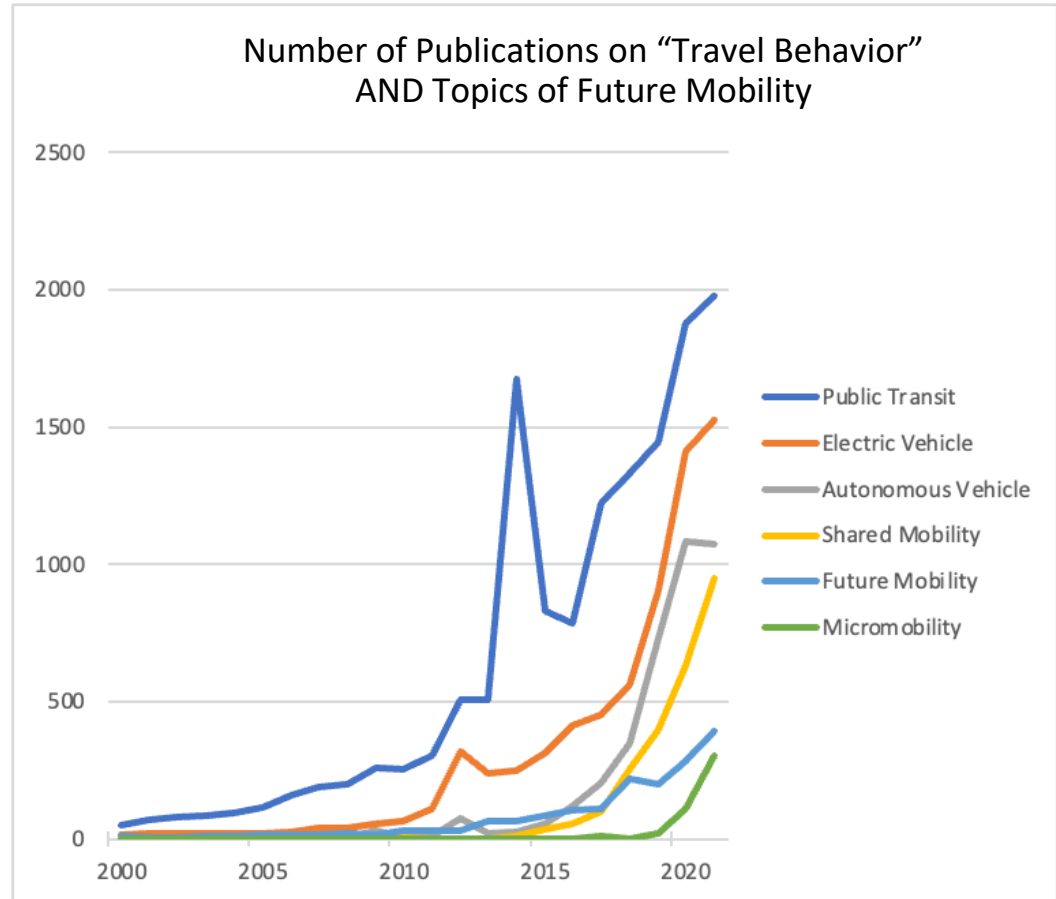**Can we increase the amount of collective wisdom?**

NOTE ON SCOPE

Great directions, but **outside the scope**:

- Dissemination via conferences and workshops.

- Leadership by public agencies to solicit and support research in the public interest.

- Translation of academic work via Policy Briefs and other mainstream outlets.

- Change academic merit case process

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IN SCOPE

How to harness this to produce more collective wisdom?

Number of Publications on "Travel Behavior" AND Topics of Future Mobility

Legend:
- Public Transit
- Electric Vehicle
- Autonomous Vehicle
- Shared Mobility
- Future Mobility
- Micromobility

Dimensions
https://www.dimensions.ai/

17

Not just us
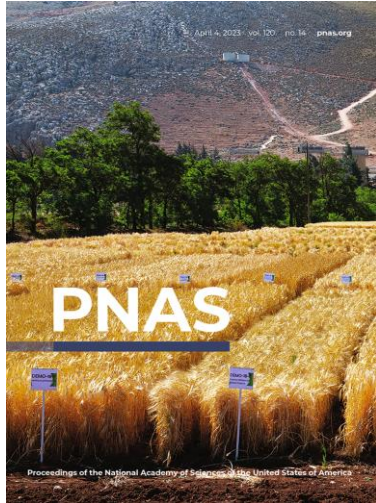
Slowed canonical progress in large fields of science

Johan S. G. Chu[a,1] and James A. Evans[b,c,d]

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"If too many papers are published in short order, new ideas cannot be carefully considered against old, and processes of cumulative advantage cannot work to select valuable innovations. The more-is-better, quantity metric-driven nature of today's scientific enterprise may ironically retard fundamental progress in the largest scientific fields."

(2021)

Pillar 1:

More review papers in academic journals

Review Papers

"The aim of this paper is to summarize and analyze literature that focuses on travel-related behavior impacts of AVs, namely levels 4 and 5, as well as highlight important directions of research."

78 papers reviewed.

What do we (Not) know about our future with automated vehicles?

Mustapha Harb [a,*], Amanda Stathopoulos [b], Yoram Shiftan [c], Joan L. Walker [d]

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ARTICLE INFO

Keywords:
Automated vehicles
Travel behavior
Literature review
Simulation models
Stated preference surveys
Fields experiments

A B S T R A C T

While research on developing and testing automated vehicle (AVs) technologies is well underway, research on their implications on travel-related behavior is in its infancy. The aim of this paper is to summarize and analyze literature that focuses on travel-related behavior impacts of AVs, namely levels 4 and 5, as well as highlight important directions of research. We review five methods used to quantitatively investigate these implications and how each method contributes to this literature: 1) controlled testbeds, 2) driving simulators and virtual reality, 3) agent-based and travel-demand models, 4) surveys, and 5) field experiments. We also present five critical

Academic Impact

Papers
each makes a **unique** contribution to knowledge

Citations

Societal Impact

Doing good for the world

"Uniqueness" Paramount makes comparison difficult.

Need to do something to facilitate comparison.

Pillar 2:

Better benchmarking infrastructure & process

Short-term Transit Ridership Prediction from SmartCard Data

100+ papers on new models.

Wide variability of benchmark and performance metrics.

Most papers limited to one geography and a handful of stations.

Data and code are rarely shared.

"Even if I spend time carefully reading these 100+ papers, I wouldn't know what is the best model. "
– Juan Caicedo

Infrastructure for Benchmarking Transit Prediction Models
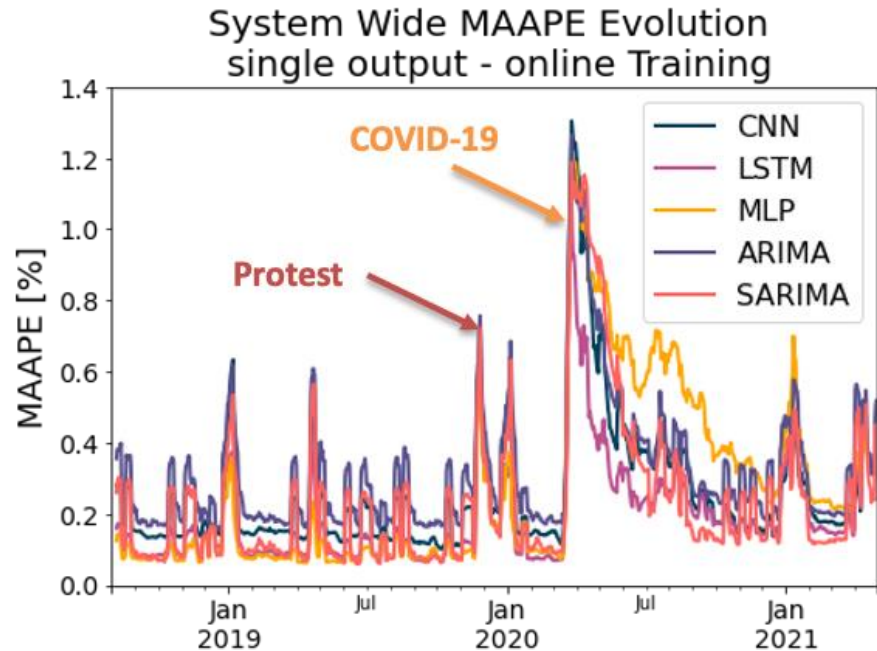
GitHub open-source software

Five state-of-the-art models

Performance metrics

Bogotá Colombia
Processed SmartCard data
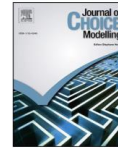
Caicedo, Gonzalez, Walker (2023)

System Wide MAAPE Evolution single output - online Training

Calls for Proper and Comprehensive Assessment of Models

Contents lists available at ScienceDirect

Journal of Choice Modelling

journal homepage: http://www.elsevier.com/locate/jocm

ELSEVIER

The overreliance on statistical goodness-of-fit and under-reliance on model validation in discrete choice models: A review of validation practices in the transportation academic literature

Giancarlos Parady [a,*], David Ory [b], Joan Walker [c]

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[c] Department of Civil and Environmental Engineering, University of California, Berkeley, USA

Size Matters: The Use and Misuse of Statistical Significance in Discrete Choice Models in the Transportation Academic Literature

Giancarlos Parady, Kay W. Axhausen

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One-off efforts.

How to normalize and make a part of our DNA?

Pillar 3:

Develop best practice and align (and enforce) it in publication process.

"An inherent principle of publication is that others should be able to replicate and build upon the authors' published claims." - *Nature*

"Otherwise, it's journalism." - Joan Wallman

authors are required to make materials, data, code, … promptly available to readers without undue qualifications.

generally require all data underlying the results in published papers to be publicly and immediately available.

authors are expected to make available a complete set of the data used as well as any specialised computer programs.

Data Sharing Policies from the top 13 Transportation Journals

 # JOURNALS

1   **no data sharing policy**

7   **encourage, enable**

1   **encourage, enable, require data availability statement**

4   **require (and enable) where appropriate**

ONE DATA POINT
Recent issue of transport journal that requires (and enables) *where appropriate*

 # Papers

1   no data used

1   data linked to article

12   available on request

6   can't share/confidential

4   no statement

ONE DATA POINT
Recent issue of transport journal that requires (and enables) *where appropriate*

 # Papers

1   no data used

1   data linked to article

12   available on request

6   can't share/confidential

4   no statement

Email request led to:

1 can't share/confidential

4 provided data

7 no response after 6 days

Do as I say, not as I do

As much as I believe, the incentives aren't there to carry through to make data and software available and to follow best practice.

Community needs to step up with clear best practice.

Journals need to participate and enforce.

An OATH for the field?

**With clear guidelines
that journals enforce.**

Berkeley
UNIVERSITY OF CALIFORNIA

Pillar 4:

Develop a Moonshot...
or at least North Star(s)

HFIP "successfully attained its initial goal of reducing the error in track and intensity forecast guidance by 20% within the program's first five years, on its way toward meeting its even more challenging goal of a 50% reduction of error within 10 years."

Contents lists available at ScienceDirect

Transportation Research Part A

journal homepage: www.elsevier.com/locate/tra

Values of travel time in Europe: Review and meta-analysis

Mark Wardman [a,b,*], V. Phani K. Chintakayala [c], Gerard de Jong [b,d]

"The value of travel time is one of the most important parameters of transport planning"

389 European studies (1963 - 2011); National studies from Denmark, Germany, Netherlands, Norway, Sweden, Switzerland, and the United Kingdom.

What could be our Moonshot or North Star in travel behavior research?

results

Moonshots/North Stars (55 participants)

Create standardized datasets to share
Sharing
Finding FEASIBLE paths to net zero transportation
Community ownership
Establish common definitions for operationalized measures and require
reference to these in published data
Policy and infrastructure alignment to Net negative Carbon emissions
Zero deaths in transportation.
Reducing people's travel time
What incentives are most impactful for mode shift to public transit?
We should be working toward carbonization. Teamwork will be key
Better incentives at the grad or young scholar level for publishing
review papers
Focus in customer, pollution and business model
Energy efficiency
Whoa. Tough question. Need time to think.
Data sharing, nd standart results, e.g. vot
Refined NHTS that incorporates big data and new modes
Integrate practitioners in research process
Social welfare and policy implications
Accessibility
What are actually effective incentives/disincentives for decreasing
individual vehicle use?
Understanding key trends to improve safety, mobility and equitable
outcomes.
Make more realistic models that account for true behavior
Awarding papers that have an impact — implemented by government
or industry
Lower GHG emissions
Improve vkt forecasting for a 5-year time horizon
Constrain the number of papers that are published annually to some
reasonable number to enhance the quality of work.
Improve public transit ridership
To have a common platform to understand the developments around
the world
Require data and script to be shared *and findings to be reproduced (by
gpt?)* before publishing
How much investment per person is required for successful public
transit at different levels of density?

Non motorized travel
That we're looking at humans
Define metrics, such as travel time, energy consumption, and optimize towards
those.
eliminating the irrelevant data as we drive along
Public good
A model to do everything. Location and land development, household formation
and vehicle ownership, mode and destination and day of year and time of day, etc.
Transit
Improving well-being of individuals
focus on fundamental results, collective effects, transferable principles
Reproducibility
Library of functions as well as papers — so we can search code with citations to
leverage processes just as easily as searching papers to leverage insights
Central processing of new research in a big data / AI tool that is managed by a
quorum-defined set of principles & rules from an elected panel of experts
:)
Real time IA based research on behavior.
Improving human life
Easy application in policy development
Evolution of TDM to better intake behavioral economics principles
Clear methodology which can be replicated
We should focus less on uniqueness of paper and more on the social contributions
especially for each local community
Studies that contribute to broad themes instead of individual purposes, data and
methods can be shared on broad themes. Studies can expand things like sample
size/geographies.
Relevance
Quality paper, good review paper
Open data and analysis along with best practice and documentation of
representative data collection. Establish norm for multi-site collaboration to verify
results.
Optimization of individual behavior with effective policy
Ghg, at least for now
Decarbonize transportation
How do we measure equity in transport ion policy impact?
Predicting behaviors with 80% accuracy
Why collective forms of transport are almost always an inferior good compared to
personal forms of transport
Good papers and good open source data initiatives.

Pillar 5:
Lean in to Existing Literature

Instead of pivoting away from ideas that have already been done, LEAN IN to strengthen knowledge.

Reach out to collaborate/build directly on existing work (and accept those who reach out).

Reproduce and verify existing work.

Crowdsource North Stars: Flag key results in papers and call explicitly for additional estimates.

60%

Increase in VMT from Fully Autonomous Vehicles

Method: Chauffeur field experiment.

Harb et al. (2021)

1.0

Induced trip for each telecommute day

Method: Causal model using longitudinal smartphone data throughout pandemic.

Obeid et al. (2022)

When direct comparisons are difficult,

more room for advocacy and confirmation bias,

less science.

Pillar 6:

Lean on both methods and findings

A Cautionary Tale of Taking Causality for Granted

- Does a shift to telework result in induced non-commute trips?
- Hook et al. (2020) found only 5 of 15 studies found YES
  → evidence suggests that telework does NOT result in induced non-commute trips.
- BUT, most studies relied on cross-sectional data and regression adjustments to compare telecommuters' and non-telecommuters' travel behavior, which is prone to selection bias and unobserved confounding.
- Obeid et al. (2022) using longitudinal data and explicit causal approaches, points strongly to 1 induced trip for every 2 reduced commute trips.
- **Critical to focus on methods, not just emphasize findings.**

**Time to vote, add,
   and commit.**

**How best to increase
collective wisdom of our
academic publications???**

VOTE
What pillars would be most impactful?

Results

SUGGEST
What other pillars do you suggest?

Results

50

Most impactful pillars? (96 participants)

	More review papers	Benchmarking infrastructure	Require data/ code with publications	Develop and enforce best practice (oath) for field	Develop moonshots/ north stars	Lean in to existing literature	Lean on both methods and findings	None of the above	Other (enter with next QRCode)
	27	32	45	33	32	24	35	0	7
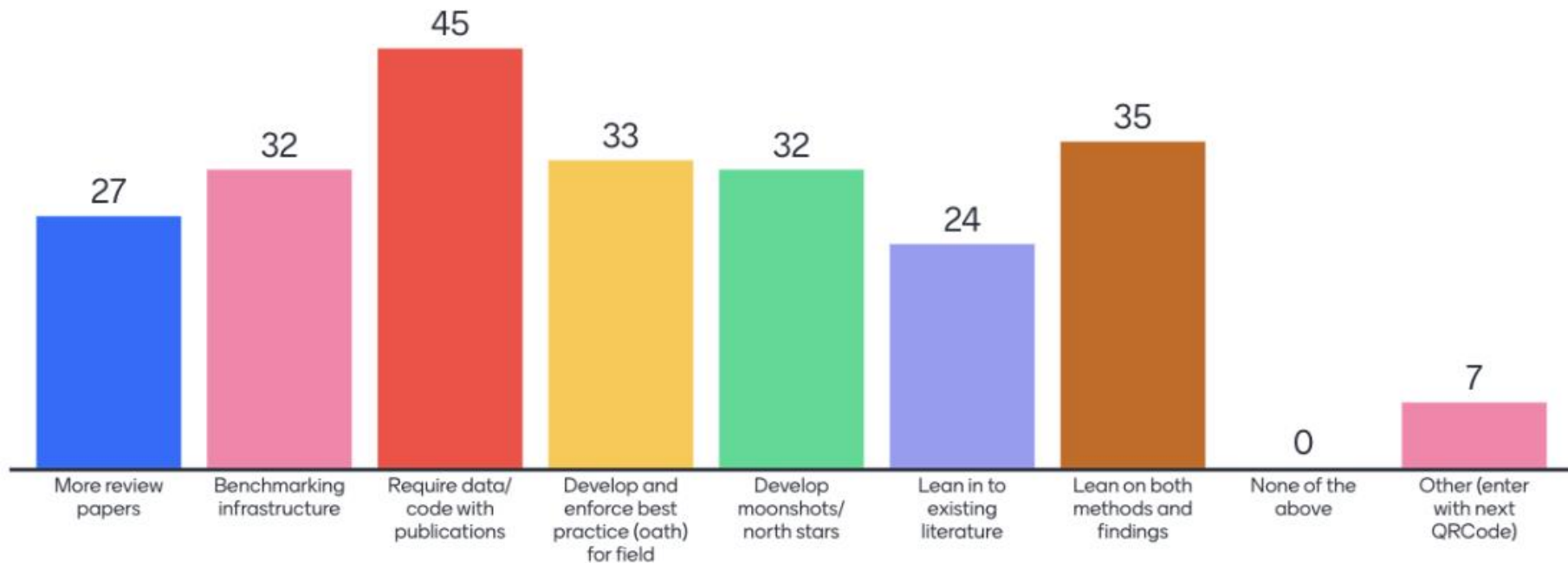
Other pillars? (29 participants)

Require meaningful engagement with practitioners and civic partners. Summarize findings to be widely understood by the public.
More split papers: standard and new models
Focus on causality, but not dogmatically.
Clear methodology which can be replicated
Collaboration
Cross discipline sharing data and methods.
Focus on critical applications
Move editorial agencies to universities
Integration of practitioners in r research process
Increasing public awareness and knowledge about what is most important and needed to improve the field
People get credit for any papers published from their data
ENGAGE WITH PRACTICE
Make key findings of reviewers public to show from an independent source what weaknesses the papers may have.
Reform the academic review process which influences the publication ecosystem
Encourage less strict paper formatting
Streamline IRB review processes to facilitate data sharing. Make data sharing an explicit expectation in the IRB review process.
Reward collaboration by separate research teams
Encourage collaboration
Change the reward system for authors away from increasing paper bean-counts. Change the reward system for editors away from increasing impact factors.
Connect with researchers with practitioners
1-Not base academic merit on the number of citations
2- More rigorous plagiarism checks.
Focus on practical research that can be implemented by with non-academic transportation practitioners
reduce subjectivity
Develop model problems and data representing them
Getting rid of peer review or at least not the way it's done now
Diffusion
reduce noise
Higher standards for publications to encourage more collaboration and larger studies, and less papers
Make direct connections with practice
Stronger editors and more guidance to reviewers.
Comparison
Reform of the academic personnel review system which bears heavily on publication behavior (no pun)
Fix peer review

COMMIT

Collective wisdom takes collective action.

What are you going to DO?

53

What are you going to do? (22 participants)

Continue sharing code and data
As an editor, I am trying to use reviewers as advisors rather than vetoes.
Promote tools that ease publishing well-described data
Share and dissemination of data
Publish survey data after submitting first results to a conference.
Sharing data
Definitely collaboration
Conduct statewide survey and update models to deal with current and expected critical applications like ghg modeling
Discuss it with my colleagues. Set incentives in my area of influence
Focus on practical implications of the results I find in my research
Stay informed and contribute ideas whenever possible
Talk about it on social media
Publish books
Review more literature to create benchmarks
Lean into research studies
I have decided to publish my work outside of journals. Just a webpage.
Share data, code, and conclusions. Focus on conducting research that leads to practical interventions. Keep research basic and ask simple questions. It doesn't have to be complicated to be important.
Help develop benchmarks, share data and tools, and write about issues
objective analysis
Working on projects that have a clear implementation plan .
Finish
In my MSc dissertation, lean more into the available literature
Share data and code

Academic Impact

Papers
each makes a unique contribution to knowledge

Citations

Societal Impact

Doing good for the world

Sociademic Impact

Rigorous papers developed
with a collective focus
to do good for the world

Acknowledgements

UC Davis 3 Revolutions Future Mobility Program, NYU Abu Dhabi, and MIT Mobility Forum organizers and participants.

All my students, and especially Juan Caicedo, Phoebe Ho, and Hassan Obeid for assistance with this presentation.

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The Zephyr Foundation whose mission is to Advance Travel Analysis to Improve Society.

Moving from Citations to Collective Wisdom in Travel Behavior Research

Joan Walker

joanwalker@berkeley.edu

Chat log from the talk

12:03:18 From Bhuvan Atluri to Everyone:
Thank you all for joining us today. All previous forum video recordings and slides can be accessed at https://www.mmi.mit.edu/forum . Please subscribe to our YouTube channel (https://www.youtube.com/@mitmobilityinitiative6999) and LinkedIn page (https://www.linkedin.com/company/mit-mobility-initiative/) in order to be kept informed of all updates & upcoming events.
12:03:19 From Kara Kockelman to Everyone:
Greetings from Austin, everyone! It's 11 am here. Hope you're headed into an excellent weekend.
12:03:35 From Melissa Rossi to Everyone:
Reacted to "Greetings from Aus..." with 👋
12:03:52 From Jack Nilles to Everyone:
Fifty years ago I did a study on interdisciplinary research in universities. The main concern was that such research runs up against the reward system and is discouraged. Has anything changed since?
12:04:00 From Siqi Feng to Everyone:
Reacted to "Greetings from Austi..." with 👋
12:04:19 From Kelley Coyner to Everyone:
Hi, I'm an AI assistant helping Kelley Coyner take notes for this meeting. Follow along the transcript here: https://otter.ai/u/viL8114muA1LfNgQyJY1BZUb-FE?utm_source=va_chat_link_1

You'll also be able to see screenshots of key moments, add highlights, comments, or action items to anything being said, and get an automatic summary after the meeting.
12:05:14 From Gabriel Oye-Igbemo to Everyone:
Student
12:05:45 From Kara Kockelman to Everyone:
Jack: UT Austin puts its own money behind multidisciplinary research (e.g., the Good Systems research program, for ethical AI use). And NSF actively requests & expects it on many RFPs. I've never sensed discouragement of inter- or multi-disc research. It's necessary, to answer most realistic, complex/systems questions.
12:12:32 From Ellen Partridge to Everyone:
The federal government is encouraging EVs, rather than AVs or shared mobility. It has a large influence.
12:13:46 From Erik Sabina to Everyone:
tooting Colorado's horn, one of the ways to do what Joan is suggesting is to pay more attention to the direction of leading-edge application contexts.
12:13:55 From Claude Morelli to Everyone:
8500 papers per year is ridiculous.
12:15:03 From Partha Mishra to Everyone:
Classic principal agent problem!
12:15:16 From Ryan Westrom to Everyone:
Love this „Äòbody of work‚Äô reflection. Is another word for this phenomenon „Äúgroup think‚Äù? I‚Äôm wondering if Dr. Walker believes that transportation research is too narrow in its focus (subject areas) or rather too narrow in its approach (methods) or both?
12:15:59 From Kelley Coyner to Everyone:
Hi, I'm an AI assistant helping Kelley Coyner take notes for this meeting. Follow along the transcript here: https://otter.ai/u/viL8114muA1LfNgQyJY1BZUb-FE?utm_source=va_chat_link_2

You'll also be able to see screenshots of key moments, add highlights, comments, or action items to anything being said, and get an automatic summary after the meeting.
12:16:03 From Kara Kockelman to Everyone:
With 7.9 Billion people on the planet, just 8500 people (1 per paper on average?) publishing in this important topic area seems alright to me. Reading, doing, & writing is how our graduate students learn and advance, so the topics & ideas regularly overlap. Of course, it's a tremendous demand on the existing journals' editors, and no one can keep up with everything. Thank goodness for the WWWeb helping us find the most relevant work!
12:16:45 From Ellen Partridge to Everyone:
Reacted to "With 7.9 Billion peo..." with 👍
12:17:35 From Mitch Erickson to Everyone:
She simply edited her student‚Äôs count from 300 to 100 based on her gut???
12:18:35 From Eric Paul Dennis to Everyone:
The data and code not being shared is an issue. I am less likely to adopt conclusions of a study of it does not provide enough information for me to follow the methodology. I usually won't even take the time to check the math, but having that option gives me confidence.
12:18:45 From Claude Morelli to Everyone:
Is there are role for GPT or other AI models to reduce the burden of synthesizing knowledge?
12:19:00 From Samuel Chin to Everyone:
In Computer Science, papers from NeurIPS, ICML, ICLR etc. in general release code and benchmark datasets. These are highly regarded conferences. Is this a difference between journals and conferences, or it‚Äôs a problem of the field?
12:19:35 From Spencer McDonald to Everyone:
Considering the current emphasis on publication and citation counts in academic research, what do you believe are the root causes that have led to this disconnect between academic incentives and the production of collective wisdom for transportation planning and policy?
12:19:48 From Bart Treece to Everyone:
Replying to "She simply edited he..."

I would tend to trust my gut, and if the number doesn't make sense, why put it out? I don't see the issue with playing it safe with 100+ rather than 300.
12:19:53 From Jacques Gordon to Everyone:
Can't a good comparative or synthesis paper contribute unique insights? Is this truly an either/or situation?
12:20:27 From Danil Prokhorov to Everyone:
Reacted to "Can't a good compara..." with 👍
12:20:52 From Slick Stranger to Everyone:
so kool
12:21:02 From Ellen Partridge to Everyone:
What does federal policy require for data availability for federally supported research?
12:21:10 From Korawich Kavee to Everyone:
Do we have journal editor in this seminar?

12:21:37 From Kara Kockelman to Everyone:
Korawich: we have lots of editors in the audience. At least 5 lead editors, I believe.
12:21:50 From Korawich Kavee to Everyone:
Reacted to "Korawich: we have lo..." with 👍
12:22:06 From Junyi Ji to Everyone:
Reacted to "Korawich: we have lo..." with 👍
12:22:25 From Kara Kockelman to Everyone:
Reacted to "The data and code no..." with 👍
12:22:43 From Chris Cherry (UTK) to Everyone:
Journal enforcement is key. No research was ever hired or promoted because they shared data.
12:23:15 From McKenzie Humann to Everyone:
Similar to Claude Morelli‚Äôs question: could there be a role in using GPT in evaluating reproducibility of research (if code and data are provided)? I understand that reproducibility is a main driver of pushing for release of code and data in other academic areas, namely economics.
12:24:06 From Jay Maddox to Everyone:
Could you talk a bit more about what a ‚ÄúNorth Star‚Äù would look like in the US transportation research space?
12:24:23 From Jason Hawkins to Everyone:
We've been having conversations through the Zephyr Open Science team (incidentally led by one of Joan's former students) regarding what constitutes open science across transport topics: travel behavior is often constrained by survey IRB and we're seeing more proprietary data use. One vendor told me they were open to sharing a form of data, but it's largely a case-by-case basis, which takes time for the researcher to negotiate with them.
12:24:33 From Jeff Lidicker to Everyone:
I'm not sold on data sharing in all situations. Sometimes data comes from multiple years of work and at great costs. I may want to publish from a good dataset for years and don't need to be scooped by other's doing research with my data. Thoughts?
12:24:42 From Chris Cherry (UTK) to Everyone:
IRB/Ethics is really tough. To overcome the burden of survey-related research, we (in our IRB applications) almost always say that we will lock down/encrypt etc all data and don‚Äôt take the extra effort to manage sharable data (then pray for approval).
12:24:55 From Rick Macchi to Everyone:
Is there any industry that BENEFITS from less consensus on Hurricanes? I don't think so. So unlikely to be push-back on improving hurricane forecasting.
12:26:13 From Elizabeth Deakin to Everyone:
IRB makes it hard to share data, agencies don't want to pay to anonymize it, university doesn't cover the cost either, nor do journals. Strong policies would have to be backed by funding!
12:26:37 From Claude Morelli to Everyone:
Reacted to "IRB makes it hard to..." with 👍
12:26:46 From Jason Hawkins to Everyone:
Reacted to "IRB makes it hard to..." with 👍
12:27:11 From Kara Kockelman to Everyone:
Reacted to "I'm not sold on data..." with 👍
12:27:35 From Suryakant Buchunde to Everyone:
Replying to "I'm not sold on data..."

Will not researchers come up with new idea and use your data to prove their ideas instead of spending their years on collecting the same data
12:27:37 From Rob Fellows to Everyone:
I‚Äôd suggest the research would be better focused if the academic world was not so disconnected from practitioners. As a transportation professional I have less and less access to academic research, and it also seems less and less relevant to me. Better integration of practitioners would help focus research statements on answering real practical questions, and provide research when results are counter to observation.
12:27:38 From Leah Kaplan to Everyone:
Leaning in is especially difficult for doctorate students who have to make one or more unique contributions in order to graduate
12:28:02 From Brian Lee to Everyone:
Reacted to "I‚Äôd suggest the rese..." with �

12:28:08 From Chris Cherry (UTK) to Everyone:
Reacted to "Leaning in is especi..." with 👍
12:28:12 From Matthew Gibbs to Everyone:
Reacted to "I‚Äôd suggest the r..." with 👍
12:28:19 From Simon Hu to Everyone:
Reacted to "I‚Äôd suggest the rese..." with 👍
12:28:25 From Bhuvan Atluri to Everyone:
Reacted to "I‚Äôd suggest the rese..." with 👍
12:28:36 From Nineveh O'Connell to Everyone:
What responsibility should fall on universities/research institutions to set up best practices to normalize code sharing in the publication process?
12:28:59 From Kara Kockelman to Everyone:
I've done 12+ surveys across the US (n=1000+ adults, typically), and I've never been asked by UT Austin to not share the data. (There's nothing sensitive in the data. We're not allowed to collect addresses, for example, and we can always remove email addresses etc easily. Those don't affect results.) At the same time, it takes about 2000 person-hours to create the data set, so I generally don't want to share the data immediately. After 2 years (from day of final collection, about 1 year after publication) may be a great target. What do you all think?
12:29:09 From Bart Treece to Everyone:
Replying to "I‚Äôd suggest the rese..."

Civic engagement is super valuable to research and aligning with the societal needs.
12:29:14 From Luk Knapen to Everyone:
research directions in pillar 5 are interesting but who can find funding for such topics ?
12:29:19 From Luba Guzei to Everyone:
Reacted to "I‚Äôd suggest the rese..." with 🙂
12:29:35 From McKenzie Humann to Everyone:
Reacted to "I‚Äôd suggest the rese..." with 🙂
12:29:37 From Chris Cherry (UTK) to Everyone:
Replying to "I'm not sold on data..."

Totally agree with this. I camp on my data for too long probably because 1) I don‚Äôt want to be scooped with my own arduously collected data and 2) my grad students should really not be scooped on their PhD works.

Chat log from the talk

12:29:37 From Kara Kockelman to Everyone:
    Reacted to "Leaning in is especi..." with 👍
12:29:47 From Lynn Hulse to Everyone:
    Reacted to "I'm not sold on data..." with 👍
12:31:16 From Lynn Hulse to Everyone:
    Reacted to "I‚Äôd suggest the rese..." with 👍
12:31:51 From Chris Cherry (UTK) to Everyone:
    If we‚Äôre already overloaded by the avalanche of papers, how does sharing code/data improve that process? I‚Äôm most interested in papers that ask the ‚Äúso what?‚Äù question.
12:31:59 From Scott Moura to Everyone:
    Replying to "I'm not sold on data..."

    Jeff is NOT wrong. I agree, and that‚Äôs the problem. Academia is an individualistic culture. Sometimes releasing the data would accelerate a field, at the cost of individual advancement.
12:32:05 From Luk Knapen to Everyone:
    problem may be that results are often purchchased by governmental organisations who know the preferred outcome in advance
12:32:10 From Anson Stewart to Everyone:
    Reacted to "Jeff is NOT wrong. I..." with 👍
12:32:15 From Anson Stewart to Everyone:
    Reacted to "If we‚Äôre already ove..." with 👍
12:32:16 From Jeff Lidicker to Everyone:
    Reacted to "Jeff is NOT wrong. I..." with 👍
12:32:17 From Sean Swat to Everyone:
    Reacted to "If we‚Äôre already ove..." with 👍
12:32:21 From Jeff Lidicker to Everyone:
    Reacted to "Totally agree with t..." with 👍
12:32:40 From Matthew Gibbs to Everyone:
    Reacted to "problem may be tha..." with 👍
12:33:12 From Avijit Maji to Everyone:
    Reacted to "I'm not sold on data..." with 👍
12:33:26 From Kang Ping LEE to Everyone:
    Reacted to "I‚Äôd suggest the rese..." with 👍
12:33:36 From Avijit Maji to Everyone:
    Reacted to "Will not researchers..." with 👍
12:34:02 From Don MacKenzie to Everyone:
    I see the peer review process as terribly broken. Most reviewers fail to distinguish between things that are wrong and things that they would have done differently. Editors enable this by abdicating their judgment and deferring unquestioningly to these reviewers.
12:34:13 From Hong Nguyen to Everyone:
    Reacted to "I've done 12+ survey‚Ä¶" with 👍
12:34:40 From Claude Morelli to Everyone:
    Reacted to "If we‚Äôre already ove..." with 👍
12:34:42 From Danil Prokhorov to Everyone:
    Reacted to "I see the peer revie..." with 👍
12:34:43 From Sean Swat to Everyone:
    Replying to "I'm not sold on data..."

    What if we built a culture where quality data collection was as highly valued and credited in and of itself as churning out papers was
12:35:01 From Chris Cherry (UTK) to Everyone:
    Reacted to "What if we built a c..." with 👍
12:35:09 From Erik Sabina to Everyone:
    agree on data. So hard, such long painstaking work, but so critical.
12:35:29 From Michael Allen to Everyone:
    Reacted to "What if we built a c..." with 👍
12:35:36 From Dr. Sandeepan Roy to Everyone:
    Reacted to "What if we built a c..." with 👍
12:35:38 From Danil Prokhorov to Everyone:
    Replying to "I see the peer revie..."

    And good luck finding competent and quick reviewers when you really need them!
12:35:45 From Alex Bettinardi to Everyone:
    There's people in the chat complaining that they are spending money on collecting data. I imagine that's not correct. Typically it's the government paying for the data right...
12:35:56 From Jason Hawkins to Everyone:
    Replying to "I see the peer revie..."

    An interesting discussion on this topic: https://experimentalhistory.substack.com/p/the-rise-and-fall-of-peer-review
12:36:05 From Kang Ping LEE to Everyone:
    Reacted to "What if we built a c..." with 👍
12:36:07 From Scott Moura to Everyone:
    Reacted to "What if we built a c..." with 👍
12:36:37 From Kara Kockelman to Everyone:
    I'm in a mtg with a grad student right now, so I can't really listen in properly. So sorry!
12:36:43 From Lynn Hulse to Everyone:
    I suppose there could be an embargo period to allow researchers to "exhaust" their own datasets. However, that would fly in the face of the open access move with journal papers (going from embargos/green open access to immediate availability/gold open access).
12:37:09 From Jeff Lidicker to Everyone:
    Reacted to "I suppose there coul..." with 👍
12:38:38 From Suryakant Buchunde to Everyone:
    Any thought on data sharing and privacy policy
12:39:16 From Jacques Gordon to Everyone:
    Reacted to "I‚Äôd suggest the rese..." with 👍
12:39:32 From Erik Sabina to Everyone:
    there is a ton of reflexive conservatism on data sharing. I am working on a survey project right now, and am trying to be proactive in the planning stage at getting agreement on data sharing, rather than trying to get agreement from partners after the survey is done.
12:41:41 From Arati Shah- Yukich to Everyone:
    Wisdom is best captured through the consensus of the community of stakeholders ‚Äì all types involved in the topic ‚Ä¶ not to limit the stakeholders to the transportation researcher
12:42:09 From Alex Bettinardi to Everyone:
    Maybe government funded work should require / ensure via contract/IGA that all data collected with government funds be posted publicly as a contract requirement...

12:42:33 From Alex to Everyone:
    ok, and what can be done to narrow the gap?
12:42:48 From Chris Cherry (UTK) to Everyone:
    Error structure papers Hani‚Äîgood point. Putting data out there could breed more papers by people with hammers (fancy models) looking for nails (datasets) that don‚Äôt really add much for policy/practice/research (since the primary purpose of data collection should already be published). Seems a huge growth in papers titled: ‚ÄúNew XYZ model with ABC error: an application of travel behavior‚Äù
12:42:52 From Matthew Gibbs to Everyone:
    Reacted to "Maybe government f..." with 👍
12:42:54 From Rob Fellows to Everyone:
    I‚Äôm hoping one of the positive effects of AI will be in making the array of research results on a topic more available to practitioners. I know there are huge risks in how this is done.
12:43:10 From Paul Kishimoto to Everyone:
    add U1Ø
12:43:14 From Chris Cherry (UTK) to Everyone:
    Reacted to "I‚Äôm hoping one of th..." with 👍
12:43:38 From Jacques Gordon to Everyone:
    Reacted to "I‚Äôm hoping one of th..." with 👍Ø
12:43:41 From Alex Bettinardi to Everyone:
    Reacted to "I‚Äôm hoping one of th..." with 👍
12:44:43 From Luk Knapen to Everyone:
    Replying to "there is a ton of re..."

    even more for code sharing although open source may be "profitable in some way". The problem may be caused by inappropriate funding mechanisms for research institutes.
12:46:07 From Matthew Gibbs to Everyone:
    Reacted to "even more for code..." with 👍
12:46:58 From Kara Kockelman to Everyone:
    Kay Axhausen: Good data is shared data. Good code is shared code. (!) 👍
12:47:02 From Jeff Lidicker to Everyone:
    Replying to "I suppose there coul..."

    Maybe need to increase value of references/use of data over having # of publications?
12:47:12 From Luk Knapen to Everyone:
    Very interesting idea from Kay Axhausen about only shared code/data are good
12:47:22 From Dr. Sandeepan Roy to Everyone:
    Reacted to "Maybe need to increa..." with 👍
12:47:35 From Suryakant Buchunde to Everyone:
    Reacted to "Very interesting ide..." with 👍
12:47:38 From Mohammad Noaeen to Everyone:
    Thanks for the great talk! Sharing data may not be the most effective approach, as it can lead to several issues such as data inconsistency, incorrect data and outputs, and hesitation to share data or code. To mitigate these problems, a central investigation group should be established (e.g., among high impact journals) to receive and validate the data and codes, ensuring consistency and defining confidential benchmarks. This approach minimizes risks and ensures comparison to the best methods, preventing publication of unimproved outcomes. Challenges may arise, but the benefits are substantial.
12:47:42 From Don MacKenzie to Everyone:
    +1 to this, Kay.
12:47:49 From Korawich Kavee to Everyone:
    Reacted to "+1 to this, Kay." with 👍
12:47:55 From Alex Bettinardi to Everyone:
    To the comment on embarrassment with sharing data. I've always hoped that publication require that a "fail" section be required. How did the research fail before it succeeded. Understanding how the project failed in the process can be just as valuable as the success. You don't want people behind you to trip on the same curbs that you did.
12:48:04 From Kara Kockelman to Everyone:
    David Levinson's Transport Findings (1000 words max + 3 tables + 3 figures) is a great place for smaller projects.
12:48:08 From Alex Bettinardi to Everyone:
    Reacted to "+1 to this, Kay." with 👍
12:48:08 From Matthew Gibbs to Everyone:
    Reacted to "Kay Axhausen: Good..." with 👍
12:48:28 From Kara Kockelman to Everyone:
    Reacted to "To the comment on em..." with 👍
12:48:28 From Paul Kishimoto to Everyone:
    It's helpful to recall Kuhn's "The Structure of Scientific Revolutions" in this context.

In other disciplines (psychology, weather & climate, etc.), revolutions have been precipitated by crises of validity and legitimacy, and then norms of reproducibility, openness, community validation etc. have emerged in the wake.

I hope it doesn't take an acute crisis for the same norms to emerge in transport research.
12:48:30 From Chris Cherry (UTK) to Everyone:
    Yes on Findings!
12:48:30 From Matthew Gibbs to Everyone:
    Reacted to "To the comment on ..." with 👍
12:48:31 From Don MacKenzie to Everyone:
    So many papers are chock a block with pointless filler. In most cases, we can say what we need to say in 1000 words.
12:48:33 From Lynn Hulse to Everyone:
    Reacted to "To the comment on em..." with 👍
12:48:35 From Katy Eryilmaz to Everyone:
    Reacted to "To the comment on em..." with 👍
12:48:53 From Dr. Sandeepan Roy to Everyone:
    Reacted to "To the comment on em..." with 👍
12:48:54 From Chris Cherry (UTK) to Everyone:
    Replying to "Yes on Findings!"

    But the critics say to me, how can you replicate those findings with so little info?
12:48:54 From Rabi Mishalani to Everyone:
    What are your thoughts on the fundamental problem of the reward systems. Both the reward system that drives authors to increase their paper bean-counts and the reward system that drives editors to increase their journal‚Äôs impact factors. You alluded to this problem, but I‚Äôd appreciate hearing more of your thought on this.

Chat log from the talk

12:49:06 From John Niles to Everyone:
My suggested north star -- Three Es sustainability measurement and forecasting as determined by the combination of how much people travel (# of trips combined with travel distance) then combined with choice of modes. Societal question is how much and by what means should human travel be constrained for the good of and the survival of civilization.
12:49:16 From Denis O'Connell to Everyone:
Is Academy much different than TIKTOK where # of citations equal # of followers and, for good or bad, # citations and # follower translates into behavior. Therefore, those that want a specific behavior practiced should make sure the desired behavior is cited the same research as much as possible.
12:49:42 From Hong Nguyen to Everyone:
Reacted to "David Levinson's Tra,Ã¶" with Ù&ç
12:49:45 From Don MacKenzie to Everyone:
Findings has broadened to include Urban Findings, Resilience Findings, and Energy Findings, for those of us who work across fields.
12:50:14 From Kara Kockelman to Everyone:
I always make my students put read findings (& numbers) in their abstracts, b/c I don't get much out of other abstracts w/o such results. No motivation needed, typically, in the abstract.
12:50:26 From Kara Kockelman to Everyone:
^ read = real Ù∆Ê
12:50:57 From Der-Horng Lee to Everyone:
Reacted to "^ read = real Ù∆Ê" with Ù&ç
12:51:05 From Jack Nilles to Everyone:
Great comment, John. Eliminate the obfuscation but deliver the results.
12:51:12 From Jeff Lidicker to Everyone:
Reacted to "I always make my stu..." with Ù&ç
12:51:17 From Bhuvan Atluri to Everyone:
Reacted to "I always make my stu..." with Ù&ç
12:51:33 From Don MacKenzie to Everyone:
Replying to "I always make my stu..."

Abstracts should have the essential info in a nutshell - data, methods, results. No motivation. Someone scanning the literature does not need the motivation,Ã¶ they get the issue already.
12:51:45 From Don MacKenzie to Everyone:
Reacted to "I always make my stu..." with Ù&ç
12:51:56 From Erik Sabina to Everyone:
relevance is found by working with people who are operating in the space of applied policy!!!
12:52:24 From Hong Nguyen to Everyone:
Reacted to "I always make my stu,Ã¶" with Ù&ç
12:52:52 From Hong Nguyen to Everyone:
Reacted to "Kay Axhausen: Good d,Ã¶" with Ù&ç
12:53:03 From Matthew Gibbs to Everyone:
Reacted to "Abstracts should h..." with Ù&ç
12:53:04 From Jacques Gordon to Everyone:
Reacted to "It's helpful to reca..." with Ù&çÙ∆°
12:53:12 From Rob Fellows to Everyone:
Reacted to "relevance is found b..." with Ù&ç
12:53:17 From Bart Treece to Everyone:
Reacted to "relevance is found b..." with Ù∆
12:53:34 From Michael Leong to Everyone:
(As someone without as much experience), I wonder what people think about increasing the standard of the studies themselves required for publications, which would encourage more collaborative large studies? For example maybe n=1000 surveys won,Ã¶t cut it anymore, n=10,000 may be the new normal. Or n=100,000 eventually, as data collection and computing power improve. So theoretically, what would have been 10 separate studies could combine into 1 to meet a higher publication bar. Of course there are many more things than number of respondents, but just an illustrative example,Ã¶
12:53:56 From Kelley Coyner to Everyone:
Add last minute items before the meeting ends: https://otter.ai/u/viL8114muA1LfNgQyJY1BZUb-FE?utm_source=va_chat_link_3
12:54:19 From Eric Paul Dennis to Everyone:
My job is largely to bring academic literature into the public policy realm. The proliferation of papers using novel methods makes this difficult. I spend a lot of time trying to identify the most authoritative and applicable sources.
12:55:07 From Steve Polzin to Everyone:
Is there evidence of a demand for the data? Are people refusing to share the data when asked? Prepping the data to share and then hand holding for future users can be a lot of work.
12:55:11 From Alex to Everyone:
property rights for collected data
12:55:12 From Kay Axhausen to Everyone:
Joan referred to the category of ‚Äúdata paper‚Äù at ‚ÄúTransportation‚Äù.
12:55:23 From Rob Fellows to Everyone:
Reacted to "My job is largely to..." with Ù&ç
12:55:28 From Nicholas Caros to Everyone:
A related approach in academic publishing: Environment and Planning B has a new article type called "Urban Data/Code" for sharing new datasets and open-source code.
12:55:30 From Nigel Waters to Everyone:
There is a huge and recent literature on replication and reproduction issues (including data) in many closely cognate disciplines.
12:55:30 From Ronald Ankner to Everyone:
Available to anyone but they need to pay for it?
12:55:48 From Nicholas Caros to Everyone:
Replying to "A related approach i..."

https://journals.sagepub.com/doi/full/10.1177/23998083211059670
12:55:52 From Rob Fellows to Everyone:
I think relevance is related to whether the research affects a decision, and whether the outcomes from those decisions were positive. Bad research can also affect policy, so there,Äôs judgment needed. Engagement with practitioners will increase the likelihood that research will be applied.
12:56:24 From Kara Kockelman to Everyone:
Reacted to "Abstracts should hav..." with Ù&ç
12:56:45 From Don MacKenzie to Everyone:

12:57:02 From Chris Cherry (UTK) to Everyone:
Reacted to "Realistically, I thi..." with Ù&ç
12:57:26 From Danil Prokhorov to Everyone:
Reacted to "Realistically, I thi..." with Ù&ç
12:57:54 From Erik Sabina to Everyone:
all going well in this ideal world, THEY share their data with you too!
12:57:56 From Korawich Kavee to Everyone:
Technical question ? - When we say we share the code and data do we mean make DOI of that or just GitHub
12:58:01 From Kara Kockelman to Everyone:
Michael Leong: n=5k or 10k will cost me 5 to 10 times as much as 1k, and 1k gets me highly statistically significant parameters on most X's of interest, so it's a waste of $20k+ to require a bigger sample (of humans, with about 50 to 70 questions, in this example). I'd rather spend that on charity (or students, if charity is not an option with sponsor money ;-))
12:58:03 From Kay Axhausen to Everyone:
Yes, one invests a lot of effort in a data collection, but nobody is able to do all the analyses possible with a rich data set;
12:58:10 From Don MacKenzie to Everyone:
You don‚Äôt necessarily have to share the WHOLE data set, just the variables relevant to the published analysis.
12:58:45 From Denis O'Connell to Everyone:
Does this have a cooling effect on the drive for diversity and inclusion?
12:58:46 From Chris Cherry (UTK) to Everyone:
Replying to "Michael Leong: n=5k ..."

Sometimes grad students are charity
12:58:50 From Jon Vuylsteke to Everyone:
Have "pay to publish used data" data-sharing models been tried?
12:58:53 From Dr. Sandeepan Roy to Everyone:
Reacted to "Sometimes grad stude..." with Ù∂Ç
12:59:01 From Dr. Sandeepan Roy to Everyone:
Replying to "Michael Leong: n=5k ..."

indeed
12:59:03 From John Niles to Everyone:
Useful would be evaluations of societal improvement efforts -- such as futurism initiatives like California 100, and the MPO planning work in big urban areas like Seattle and San Diego -- on how well they are absorbing and reflecting travel behavior analysis at the present state of the art.
12:59:04 From Michael Leong to Everyone:
Replying to "Michael Leong: n=5k ..."

I know the sample size is a bad example - just to give a sense of numbers. e.g. maybe studies should span multiple regions, etc.
12:59:15 From Dr. Sandeepan Roy to Everyone:
Reacted to "I know the sample si..." with Ù&ç
12:59:19 From Juan Caicedo to Everyone:
GPT DOES A TERRIBLE JOB TO SUMMARIZE ACADEMIC WORK
12:59:34 From Ronald Ankner to Everyone:
^^^ IT HALLUCINATES ALOT
12:59:35 From Jessica Lazarus to Everyone:
Reacted to "GPT DOES A TERRIBLE ..." with Ù&ç
12:59:39 From Bhuvan Atluri to Everyone:
Thank you all for joining us today. All previous forum video recordings and slides can be accessed at https://www.mmi.mit.edu/forum . Please subscribe to our YouTube channel (https://www.youtube.com/@mitmobilityinitiative6999) and LinkedIn page (https://www.linkedin.com/company/mit-mobility-initiative/) in order to be kept informed of all updates & upcoming events.
12:59:43 From Daniel Freire to Everyone:
If you are a good researcher why do you care about others uusing your data. If you are not as Good as the data that you have obtained, the public good is that this data is used by the best
12:59:45 From Rob Fellows to Everyone:
Use AI to make research accessible beyond the research community
12:59:46 From John Niles to Everyone:
Chat GPT gave me made up fictional citations by real world people.
12:59:49 From Suryakant Buchunde to Everyone:
Replying to "GPT DOES A TERRIBLE ..."

It gives fake article names
12:59:50 From Ronald Ankner to Everyone:
and comes up with fake citations
12:59:51 From Kara Kockelman to Everyone:
We hope you all will submit papers on these & other topics to BTR#5, via https://bridgingtransport.org/
12:59:59 From Jason Hawkins to Everyone:
Reacted to "We hope you all will..." with Ù&ç
13:00:01 From Don MacKenzie to Everyone:
Reacted to "We hope you all will..." with Ù&ç
13:00:04 From Alex Bettinardi to Everyone:
Reacted to "We hope you all will..." with ‚ò§Ù∂
13:00:05 From Kara Kockelman to Everyone:
^ Due date is April 30 (& presentations on Aug 9 & 10).
13:00:07 From Suryakant Buchunde to Everyone:
Reacted to "Chat GPT gave me mad..." with Ù&ç
13:00:07 From John Niles to Everyone:
Three dots at the bottom to save chat
13:00:09 From Bart Treece to Everyone:
Thanks for the presentation and great discussion!
13:00:14 From Luk Knapen to Everyone:
very interesting talk : thanks