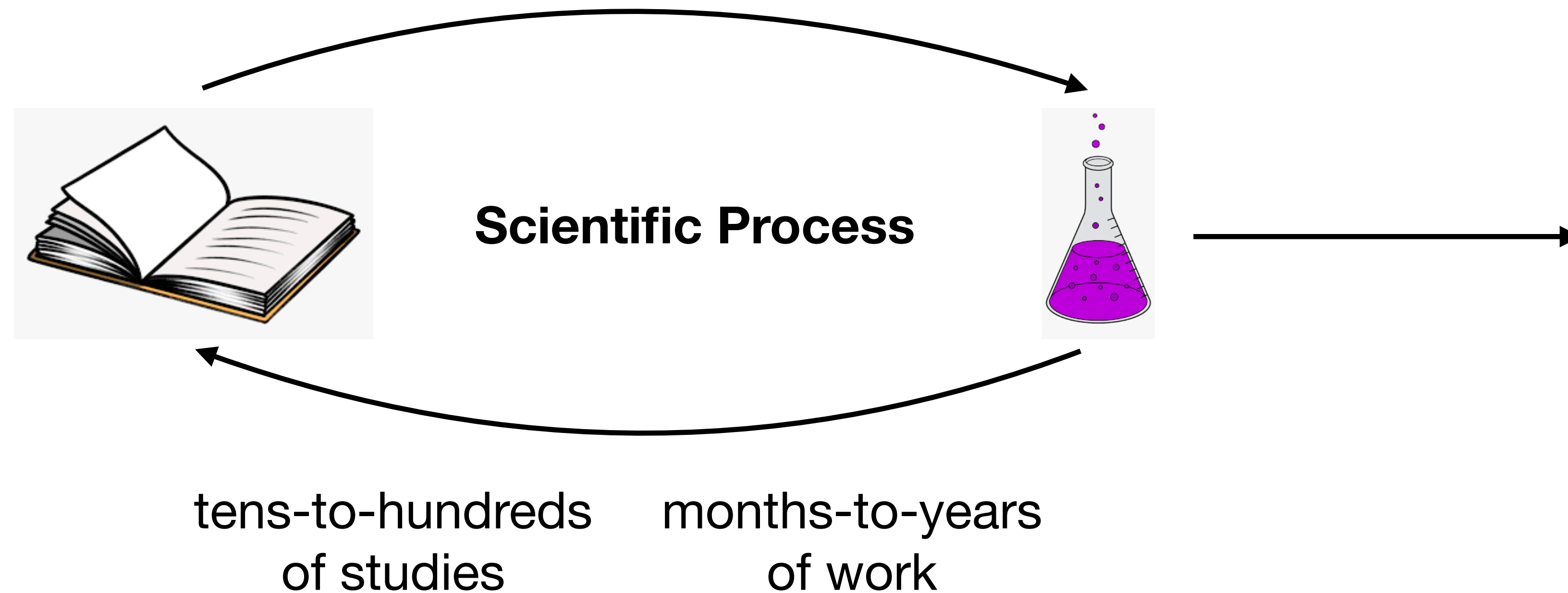


How to keep track of all those papers you read

How to keep track of all those papers you read



Goals of note taking

1. Recover **where** I read something
2. Remember **what** exactly it said



Literature Tracking Habits

using citation management software

creating a literature database

taking good notes

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Citation Management Software



Save papers to database with **key information autofilled**

Organization (tags, folders)

Notes

Other features:

Querying

Auto-compile bibliography*

Collaboration - group libraries

Browser & Google doc extension*

Goals of note taking

✗ 1. Recover **where** I read something

✓ 2. Remember **what** exactly it said

* note that you should double check citations!!

Info		Notes	Tags	Related
Item Type	Journal Article			
Title	Daily longitudinal sampling of SARS-CoV-2 infection reveals substantial heterogeneity in infectiousness			
▼ Author	Ke, Ruian	<input type="text"/>	<input type="text"/>	<input type="text"/>
▼ Author	Martinez, Pamela P.	<input type="text"/>	<input type="text"/>	<input type="text"/>
▼ Author	Smith, Rebecca L.	<input type="text"/>	<input type="text"/>	<input type="text"/>
▼ Author	Gibson, Laura L.	<input type="text"/>	<input type="text"/>	<input type="text"/>
▼ Author	Mirza, Agha	<input type="text"/>	<input type="text"/>	<input type="text"/>
	34 more...			
(...) Abstract	The dynamics of SARS-CoV-2 rep...			
Publication	Nature Microbiology			
Volume	7			
Issue	5			
Pages	640-652			
Date	2022-05			y m
Series				
Series Title				
Series Text				
Journal Abbr	Nat Microbiol			
Language	en			
DOI	10.1038/s41564-022-01105-z			
ISSN	2058-5276			
Short Title				
URL	https://www.nature.com/articles...			
Accessed	9/12/2022, 9:08:20 AM			
Archive				
Loc. in Archive				
Library Catalog	www.nature.com			
Call Number				
Rights	2022 The Author(s), under exclusive licence to Springer Nature Limited			
Extra	Number: 5 Publisher: Nature Publishing Group			
Date Added	9/12/2022, 9:08:20 AM			
Modified	9/12/2022, 9:08:26 AM			




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Relational Database

Aa Name	Title	Summary
 Howerton2023 Evaluation	Evaluation of the US COVID-19 Scenario Modeling Hub for informing pandemic response under uncertainty	First identify scenarios that actually occurred, then evaluate models using WIS and coverage
 Massery2022 Influence	The influence of biological, epidemiological, and treatment factors on the establishment and spread of drug-resistant <i>Plasmodium falciparum</i>	Used LHS and emulator to perform sensitivity analysis of IBM
 Keeling2021 Comparison	Comparison of the 2021 COVID-19 roadmap projections against public health data in England	More qualitative analysis of scenario projections using coverage estimates, with a focus on how they under-estimated

Where did I read that?

Scenario modeling hub

4-9 teams provide 12-52 weeks of probabilistic projections for weekly cases, hospitalizations, and deaths for a given scenario

Aggregation method: linear opinion pool

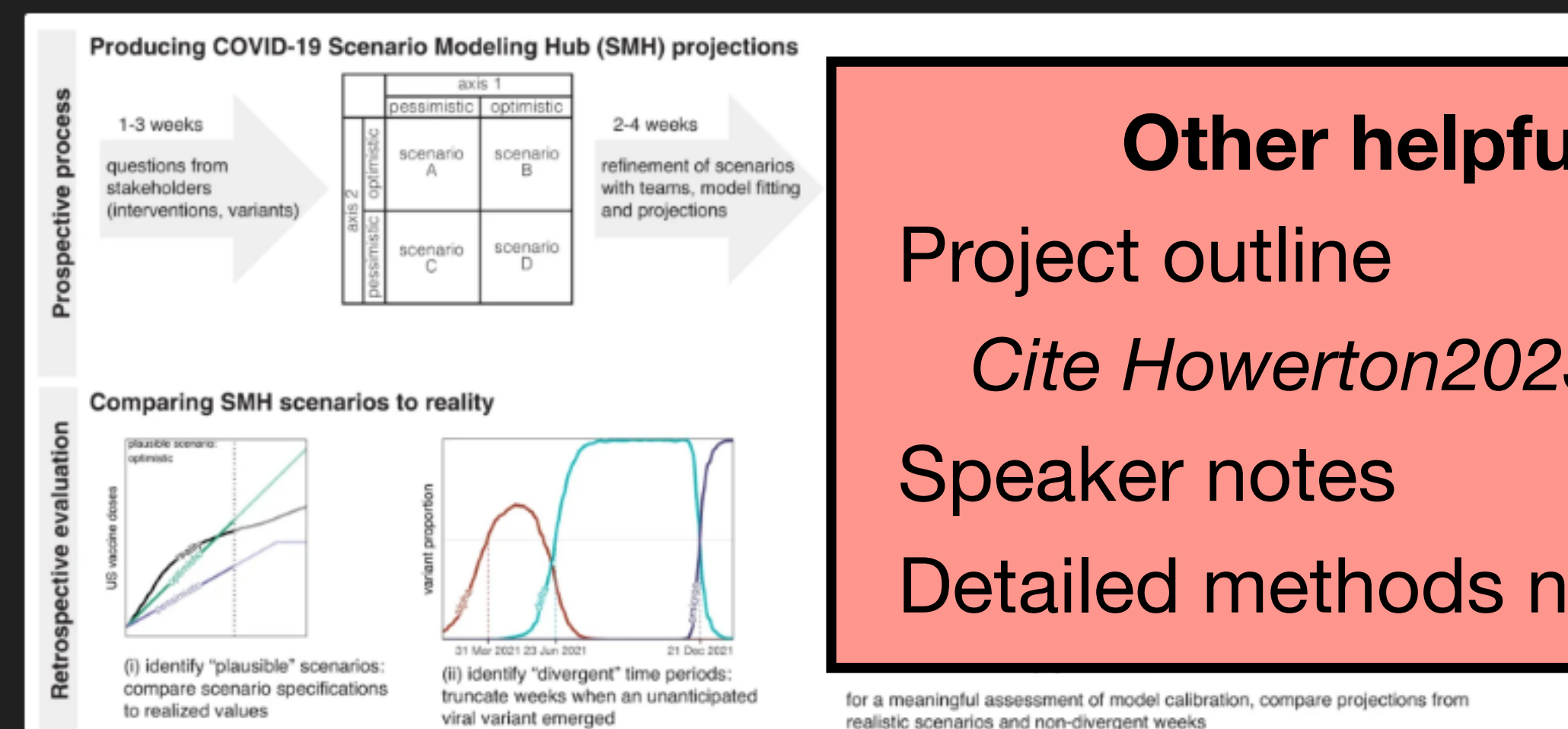
2x2 grid of scenarios with optimistic and pessimistic assumptions about two sources of uncertainty (e.g. variant transmissibility) or intervention (e.g. authorization of childhood vaccines or not)

Validation

How well projections matched reality depends on:

How well the scenario definitions matched reality

Calibration of projections conditional on scenario



Other helpful page links

Project outline

Cite Howerton2023 for scenario hub

Speaker notes

Detailed methods notes

Q1: Did scenarios bracket final observation? (e.g. if scenarios were 70% and 80% vax rates, true vax rate was somewhere between)

19/28 axes of uncertainty

What did it say?

	A	B	C	D	E	F	G	H	I	J	K	R	S
1	Paper ID	Title	Year	Authors	Sample Size	Fields	Abstract	Purpose/Objective	Main Findings	My Summary		Sub-areas	Population
2										Data	Response to Previous Limitations	Faculty	
3													
4	1	Explaining Gender Differences in Academics’ Career Trajectories	2020	Aniko Hannak & Kenneth Joseph & Andrei Cimpian	1800	30 academic fields	Academic fields exhibit substantial levels of gender segregation. To date, most attempts to explain this persistent global phenomenon have relied on limited	investigate which characteristics of a field predict gender differences among the	Women switch fields based on high expectations of brilliance and they	ORCID author profiles (78k transitions, 61k people); survey over 30 fields (1800 people)	30 fields across STEM social sciences, and humanities; 200 different countries; 6 decades	x	x
5	2	Keeping Women in the Science Pipeline	2011	Mary Ann Mason & Marc Goulden & Karie Frasch			Premier science largely depends on the quality of the pool of future scientists. Women now represent a large part of the talent pool in the United States, but many data sources indicate that	addresses the effect of family formation on both when and why women and men	Women drop out of the pipeline for marriage and childbirth; need better family policy; UC	4 surveys (Survey of Doctorate Recipients (NSF); UC 4 populations (grad students through	Includes reasons why women leave;	x	x
6	3	Women in academic science: A changing landscape	2014	Stephen J. Ceci, Donna K. Ginther,			Much has been written in the past two decades about women in academic science careers, but this literature is contradictory. Many analyses have	investigate the reasons for the leaky pipeline today, and	current barriers to women’s full participation in	SDR, many other surveys	Includes reasons why women leave; disaggregated field	x	x
7	4	Falling off the academic bandwagon	2007	Elisabeth D. Martinez Jeannine Botos Kathleen M	1300	postdocs at NIH	Women are more likely to quit at the postdoc to principal investigator transition		Women are more likely to quit at the postdoc to principal investigator transition	primary data collection	have not addressed important question: why are few postdoctoral fellows	x	x
8	5	Women’s careers in academic social science: Progress, pitfalls, and plateaus	2014	Donna K. Ginther & Shulamit Kahn			Many studies have shown that women are under-represented in tenured ranks in the sciences. Here, we evaluate whether gender differences in the likelihood of obtaining a tenure track job,	control for background and productivity characteristics to	The differences that persist for social science as a whole that are not explained	SDR	few studies have examined academic careers for women in social sciences	x	
9	6	Leaks in the pipeline: Separating demographic inertia from ongoing gender differences in academia	2012	Allison K. Shaw and Daniel E. Stanton			Identification of the causes underlying the under-representation of women and minorities in academia is a source of ongoing concern and controversy. This is a critical issue in ensuring the openness and diversity of academia; yet differences in personal experiences and	We construct a simple model of the academic career that can be used to identify general trends, and separate the	two key non-structural bottlenecks restricting female participation in academia: choice of undergraduate major and application to	NSF	28-year period (1979–2006); of fields	x	x
10	7	The gender gap in early career transitions in the life sciences	2018	Marc J.Lerchenmueller & Olav Sorenson			We examined the extent to which and why early career transitions have led to women being underrepresented among faculty in the life sciences. We followed the careers of 6,336 scientists from the post-doctoral fellowship stage to becoming a principal investigator (PI) – a critical	why early career transitions have led to women being underrepresented among faculty in the life sciences	Women become PIs at a 20% lower rate than men. Differences in “productivity” (publication records) can explain about 60%	6,336 scientist (connects individuals’ National Institutes of Health funding histories to their publication record)	Most prior studies have not been capable of disentangling cause-effect; also, most of prior studies on gender differences	x	x
11	8	Beyond gender schemas: improving the advancement of women in academia	2005	VIRGINIA VALIAN				social-cognitive explanation: relies on two key concepts: gender schemas and the accumulation of advantage	to improve gender equity, we need more institutional accountability and better search procedures for hiring	None	None	x	
12	9	Science faculty’s subtle gender biases favor male students	2012	C. A. Moss-Racusin, J. F. Dovidio, V. L. Brescoll, M.	127		Despite efforts to recruit and retain more women, a stark gender disparity persists within academic science. Abundant research has	whether science faculty exhibit a bias against female students that could	science faculty from research-intensive universities rated the application	primary data collection	this kind of study did exist	x	
13	10	The changing career trajectories of new parents in STEM.	2019	Erin A. Cech and Mary Blair-Loy			The gender imbalance in science, technology, engineering, and math (STEM) fields has remained constant for decades and increases the farther up the STEM career pipeline one looks. Why does the underrepresentation of women endure? This study	we investigated how new parents fare in STEM, and whether parenthood contributes to the	4–7 y after the birth or adoption of their first child, 23% of new fathers and 43% of new mothers had left	2003–2010 survey waves of the nationally representative restricted-use SESTAT (Scientists and	a longitudinal study of science PhD recipients found that new mothers were far less likely to similarly qualified r		
14	11	Understanding current causes of women’s underrepresentation in science	2011	Stephen J. Ceci and Wendy M. Williams			Explanations for women’s underrepresentation in math-intensive fields of science often focus on sex discrimination in grant and manuscript reviewing, interviewing, and hiring. Claims that women scientists suffer discrimination in these arenas rest on a set of studies undergirding policies and programs aimed at remediation. More recent and	Addressing today’s causes of underrepresentation requires focusing on education and policy changes that will make	We conclude that differential gendered outcomes in the real world result from differences in resources attributable to	review of the past 20 y of data (meta-analysis)		x	
15	12	National hiring experiments reveal 2:1 faculty preference for women on STEM tenure track	2015	Wendy M. Williams and Stephen J. Ceci	What did it say?				2:1 preference for women by faculty of both genders across both	Where did I read that?	not likely to be biased	What did it say?	

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Taking Good Notes

What information do I need so I won't have to read this paper again six months from now?

Two types of questions:

Where did I read that?

What did it say?

Strategies:

Write a brief paper summary

What questions will my advisor ask me in 2 months?

Track paper status

“to read”, “abstract”, “skimmed”, “complete”

Link / DOI / bibTeX

Keep track of which figure you got data from!

How to keep track of all those papers you read

My workflow:



Autofill info, source BibTeX
Plugins: Chrome, Zotero



Database for big ideas
Page for important details

Highly Recommend

Use citation management software

Maintain a literature database

Write a brief paper summary relevant to you

There is **not a silver bullet** piece of software to make literature organization seamless.

Different people have different needs. **So just get started.**