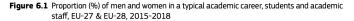
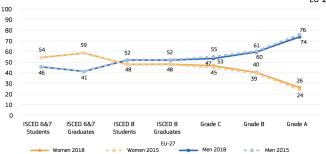
Gender equity at scientific events



Women are underrepresented in academic science

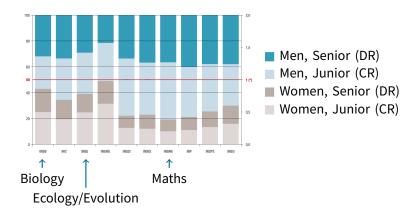




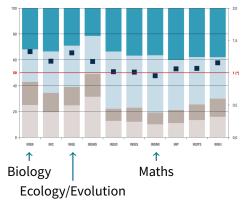
EU-27

source: She Figures 2021, European Union

Women are underrepresented in academic science, in France as well



Women are underrepresented in academic science, in France as well



- Men, Senior (DR)
- Men, Junior (CR)
- Women, Senior (DR)
- Women, Junior (CR)
- Masculine advantage

(*) Un in supérieur a 1 signne que la proportior relative d'hommes DR est supérieure à celle des formes.

source: Rapport Social Unique 2020, CNRS

Why are women underrepresented in academic science?

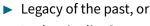
Legacy of the past, or

► Leaky pipeline?

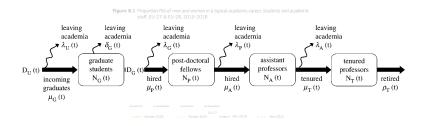




Why are women underrepresented in academic science?

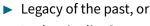


Leaky pipeline?

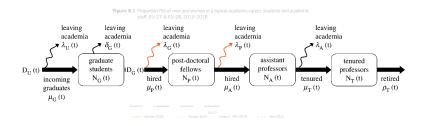


Shaw & Stanton (2012) Procs B (NSF data)

Why are women underrepresented in academic science?



► Leaky pipeline?



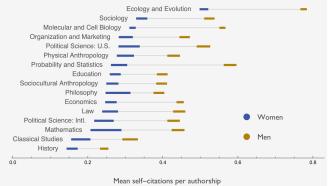
Shaw & Stanton (2012) Procs B (NSF data)

Deliberate choice or not, personal decisions, or feel like forced out.

Deliberate choice or not, personal decisions, or feel like forced out.

Behavioral differences

[King et al. (2018) Socius (/bioRxiv)]



Deliberate choice or not, personal decisions, or feel like forced out.

Behavioral differences

Implicit bias

Recommendation letters [Trix & Psenka (2003) Discourse & Society]

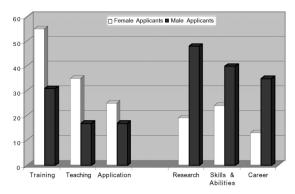


FIGURE 3. Semantic realms following possessives. Rank-ordered within gender sets from equal numbers of letters 'her training'; 'his research'

Deliberate choice or not, personal decisions, or feel like forced out.

Behavioral differences

Implicit bias

Perception of competence [Moss-Racusin et al. (2012) PNAS]

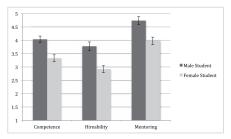


Fig. 1. Competence, hireability, and mentoring by student gender condition (collapsed across faculty gender). All student gender differences are significant (P < 0.001). Scales range from 1 to 7, with higher numbers reflecting a greater extent of each variable. Error bars represent SEs. $n_{male student condition} = 63$, $n_{remain student condition} = 64$.

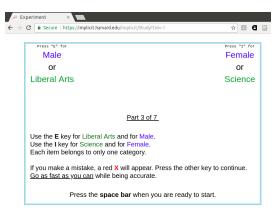
NB: the effect of faculty gender is not significant

Deliberate choice or not, personal decisions, or feel like forced out.

Behavioral differences

Implicit bias

Test yourself!



Why should we care about the proportion of women among scientists?



Why should we care about the proportion of women among scientists?

Fairness

Better science, new ideas, diversity of approaches

Gender diversity leads to better science

Mathias Wullum Nielsen^{a,1}, Sharla Alegria^b, Love Börjeson⁶, Henry Etzkowitz^{de}, Holly J. Falk-Krzesinski¹, Aparna Joshi^b, Erin Leahey¹, Laurel Smith-Doerr¹, Anita Williams Woolley^k, and Londa Schiebinger^a

Pick up any recent policy paper on women's participation in science and you will find assurances that gender diversity enhances knowledge outcomes. Universities and science-policy stakeholders, including the European Commission and the US National Institutes of Health, readily subscribe to this argument (1–3). But is there, in fact, a gender-diversity dividend in science? "mechanisms for innovation" specifying why gender diversity matters for scientific discovery and what managers should do to maximize its benefits (Fig. 2). Encouraging greater diversity is not only the right thing to do: It allows scientific organizations to derive an "innovation dividend" what leads to smatter, more creative teams, hence opening the door to new discoveries.

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Nielsen et al. (2017) PNAS

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The data supposet that there is Under the right

Nielsen et al. (2017) PNAS

Of Mice and Men

Olfactory exposure to males, including men, causes stress and related analgesia in rodents

Robert E Sorge^{1,28}, Loren J Martin¹⁸, Kelsey A Løbster¹, Susan G Sotoricall, Svan Rosen, Alexander H Tuttle¹, Jeffrey S Wieskopf¹, Erinn L Acland¹, Anastassi Dokova¹, Basil Kadoura¹, Phillip Leger¹, Joanne C S Mapplebeck¹, Martina McPhail⁹, Ada Delaney⁴, Gastaf Wigerblad⁴, Alan P Schumann², Tammie Quinne¹, Johannes Frasnelli^{6,6}, Camilla I Svensson⁴, Wendy F Sternberg³ &

We found that exposure of mice and rats to make but not female experimenters produces pain inhibition. Nalar-related stimuli induced a robust physiological stress response that results in tress-induced analysisa. This effect could be replicated with T-ahirts worn by men, bedding material from gonadally intact and unfamiliar main mannais, and presentation of compounds secreted from the human axilla. Experimenter sec can thus affect apparent backline responses in babva/oat testing.

Sorge et al. (2014) Nature Methods

The importance of being a speaker

Recognition of expertise and leadership

Principal Investigators should also be able to demonstrate a promising track record of early achievements appropriate to their research field and career stage, including significant publications (as main author) in major international peer-reviewed multidisciplinary scientific journals, or in the leading international peer-reviewed journals of their respective field. They may also demonstrate a record of invited presentations in well-established international conferences, granted patents, awards, prizes etc. For further information please see the <u>ERC Work Programme 2018</u> and the 'Instructions for completing Part B of the proposal' in this document.

source: Information for Applicants to the Starting and Consolidator Grant 2018 Calls



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source: Information for Applicants to the Starting and Consolidator Grant 2018 Calls

Personal benefit of being invited speaker



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source: Information for Applicants to the Starting and Consolidator Grant 2018 Calls

- Personal benefit of being invited speaker
- Same influences for other committees (hiring, prizes)





In previous studies

- ► All participants of a given congress
- ▶ Faculty members at a number of institutions

In previous studies

- All participants of a given congress
- Faculty members at a number of institutions

Our estimate



Calculations already done



Computed from lists of members

In previous studies

- All participants of a given congress
- Faculty members at a number of institutions

Our estimate







Calculations already done

Computed from lists of members

	Student	Postdoc	Other	Other+Postdoc	All members
ESEB	0.54 (461)	NA	NA	0.38 (983)	0.43 (1444)
SSE	0.52 (848)	0.51 (271)	0.31 (1414)	0.34 (1685)	0.40 (2533)
ASN	0.55 (428)	0.51 (108)	0.24 (688)	0.28 (796)	0.37 (1224)

In previous studies

- All participants of a given congress
- Faculty members at a number of institutions

Our estimate







Calculations already done

Computed from lists of members

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ASN	0.55 (428)	0.51 (108)	0.24 (688)	0.28 (796)	0.37 (1224)

Overall, 32% women.

(ESEB non-student, ASN post-Postdoc, SSE post-Postdoc)

In our UMRs

Ser *i***EES** Paris 70 70 65 65 60 60 - 0.8 - 0.8 55 55 50 50 Number of researchers Number of researchers Proportion of women Proportion of women 45 45 - 0.6 - 0.6 40 40 ٠ 35 0.5 35 - 0.5 -30 30 - 0.4 0.4 25 25 20 20 15 15 0.2 L 10 10 5 5 0 0.0 0 MF MF MF MF C/EC ITA C/EC ITA

source: https://annuaire.cnrs.fr/l3c/owa/annuaire.recherche/index.html, accessed 2018-11-19 (iEES) and 2019-01-11 (ISEM)

Data sources: Evoldir ads

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Data sources: Evoldir ads

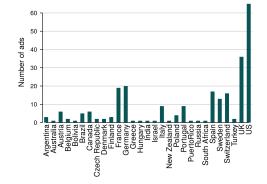
- April 2016–September 2017: Conferences and WorkshopsCourses
- ▶ 752 ads screened, 249 ads included.
- ► Two categories:
 - Conferences (Workshops, Conferences, Colloquia, ...)
 - Courses (teaching events)

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Data sources (cont.): Symposia data

Symposia at ESEB, SMBE and Evolution congresses, summer 2017





Data sources (cont.): Symposia data

Symposia at ESEB, SMBE and Evolution congresses, summer 2017





Longitudinal data: ESEB and Evolution-SSE symposia, 2001-2017

EVOLUTION MEETINGS



HISTORY

The Society for the Study of Evolution was founded in March of 1546 and heids fis its record of studiesqueet annual meetings (both type to develop this) until the SSE first in ASN had been meeting on to own, or in conclustion with three societies, since 1883, meeting on its own, or is conjunction with other societies, surfil it first joined the SSE annually even ince.

We are building an historical record of past meetings, including programs (pdfs are 1 records of their meetings, the list below uses the annual meeting of the SSE as its to information, corrections for the list below, or a copy of past program that is missing a records become incomplete and sometimes contralictory as early as the 1980s.

2017	Portland, OR (1,735 attendees)	ASN/SSB/SSE
2016	Austin, TX (1,786 attendees)	ASN/SSB/SSE
2015	Guaru(á, Brazil (887 attendees)	ASN/SS8/SSE
2014	Raleigh, NC (1.958 attendees)	ASN/SSB/SSE
2013	Snowbird, UT (1,429 attendees)	ASN/SS8/SSE
2012	Ottawa, Canada (2,450 attendees)	ASN/SSB/SSE & CSEE/ESEB
2011	Norman, OK. (1,150 attendees)	ASN/SS8/SSE
2010	Portland, OR (1.967 attendees)	ASN/SSB/SSE
	Moscow, ID (1.102 attendees)	ASN/SSB/SSE
2008	Minneapolis, MN (1,450 attendees)	ASN/SSB/SSE
	Christchurch, New Zealand	ASN/SSB/SSE
2005	Stony Brook, NY	ASN/SSB/SSE
2005	Fairbanks, AK	ASN/SSB/SSE
2004	Fort Collins, CO (1,296 attendees)	ASN/SSB/SSE
2003	Chico, CA	ASN/SSB/SSE
2002	Urbana-Champaign, IL	SSB/SSE (ASN met separatek
2001	Knowlie, TN	ASN/SS8/SSE

- Data collection:
 - ▶ Number of announced invited speakers (total, women),
 - ▶ Number of organizers (total, women),
 - ▶ Country, ...

and for contemporary data:

- Data collection:
 - Number of announced invited speakers (total, women),
 - Number of organizers (total, women),
 - ▶ Country, ...
- and for contemporary data:
- Survey of Organizers
 - Questionnaire

EO study

Barcelona Physics OlEvolution Jan 15-18

Based on the information available in the evoldir email sent on Oct 14, and on the conference velocity, we counted

#invited_Total	#invited_Women	#Organizers_Total	#Organizers_Women	#Scient ticCommittee_Total	#ScientificCommittee_Ware
23	4	1		4	
Q0 Are these r	umbers correct?				
(Invited - invite	d and accepted t	he invitation, i.e., pr	copie actually coming	to the conference)	
O Yes					
O No					
If there are erro	ors, please chang	e the entries of the	table above.		
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	vited women (17.	39 % according to	our census) ?		
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Yes					
O No					
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	oportion of women				
	portion of women	was suggested			
 No specific 	guidelines				
Q4 If there wer	e EO guidelines (suggested or impo	sed), please detail the	em in the text box	
(e.g., what prop	portion of women(
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⊖ No					
			. Notes 10 years and the line	television and advanced by	

The study will run until July 2017. Please check this box if you wish to be informed about its outcome.

Please click on Submit when you are done. Submit

We are: Flavence Debarre, Noclas Rode, Sternin de Silva, Line Ugelvig You can centrad us al esolucit 2017/Pernal.com.

- Data collection:
 - Number of announced invited speakers (total, women),
 - Number of organizers (total, women),
 - ▶ Country, ...
- and for contemporary data:
- Survey of Organizers
 - Questionnaire
 - 1 reminder email

Barcelona Physics/O/Evolution Jan15-18

Based on the information available in the evoldir email sent on Oct 14, and on the conference website, we counted.

#invited_Total	#invited_Women	#Organizers_Total	#Organizers_Worten	#ScientificCommittee_Total	#ScientifoCommittee_Ware
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⊖ Yes					
O No.					

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Please click on Submit when you are done. Submit

Fight

Noblas Rode, Stemin de Silva, Line Ugelvig

You can certact us at essbudy 2017@gmail.com.

This project is landed by the Equal Opportunity Initiative Fund of the European Society for Evolutionary Biology (SSER).

- Data collection:
 - ▶ Number of announced invited speakers (total, women),

EO study

- Number of organizers (total, women),
- ▶ Country, ...
- and for contemporary data:
- Survey of Organizers
 - Questionnaire
 - 1 reminder email
 - Overall reply rate: 65.8%.

#invited_Total	#invited_Warren	#Organizers_Total	#Organizers_Women	#ScientEcCommittee_Total	#ScientifoCom
23	4	1		4	1
	umbers correct?				
	id and accepted t	he invitation, i.e., pr	ople actually coming	to the conference)	
⊖ Yes					
No					
it there are erro	ors, pease chang	e the entries of the	table above.		
			were you aware of wh	at was the	
	vited women (17.	39 % according to	our census) ?		
O Yes					
O No					
O2 Was the re	ration of the reaso	orhers a criterion P	at you took into acco	unt when you	
	list of people to it				
O Yes					
O No					
			hat you had to follow	regarding the	
	cortions of invited				
	oportion of women				
	oportion of women	was suggested			
O No specific	guidelines				
Q4 If there wer	e EO guidelines (suggested or impo	sed), please detail the	am in the text box	
(e.g., what prop	portion of women)				
05 The raw da	to of the sturks will	I be chared on the	diaital repository Drys	d Do you accept	
			luded in the analysis		
on Dryad?					
O Yes					
O No					
	un until July 2013	. Please check this	a box if you wish to be	a informed about its	
outcome.					

Please click on Submit when you are done. Submit

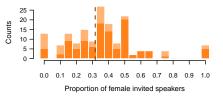
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Results

Proportions of female invited speakers

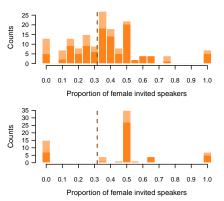
Proportions of female invited speakers

Conferences: Not different from 32% baseline



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Congress symposia: Higher than 32% baseline

Proportions of female invited speakers

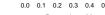
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20 Counts 15 10 5 0 0.0 0.1 0.3 0.4 0.2 0.5 0.6 0.7 0.8 0.9 Proportion of female invited speakers 35 30 25 Counts 20 15 10 -5 -0 0.0 0.1 0.2 0.3 0.8 0.4 0.5 0.6 0.7 0.9 Proportion of female invited speakers 15 Counts 10 5

Courses: Lower than 32% baseline



0

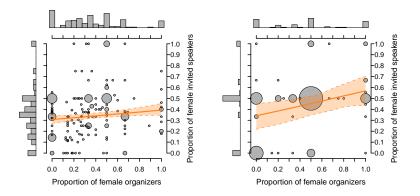
Proportion of female invited speakers

0.7 0.8 0.9

Positive effect of the proportion of women among organizers on the proportion of female invited speakers

Conferences

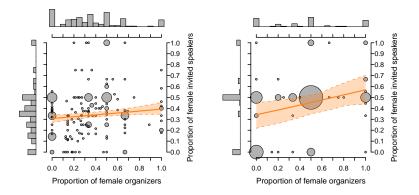
Congress symposia



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Conferences

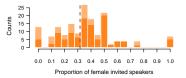
Congress symposia



Interpretation: conscious or unconscious; men favoring men...

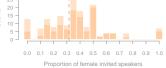
Taking gender into account when choosing whom to invite has a positive effect on the proportion of female invited speakers

Conferences: Not different from 32% baseline

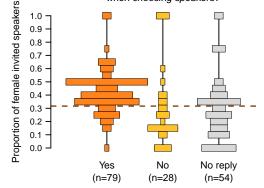


Taking gender into account when choosing whom to invite has a positive effect on the proportion of female invited speakers





Did you take gender into account when choosing speakers?



Diversity of perception of guidelines for congress symposia

Diversity of perception of guidelines for congress symposia

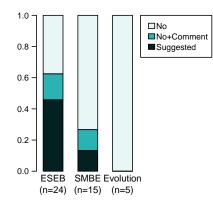
"Were there Equal-Opportunity [EO] guidelines that you had to follow regarding the number or proportions of invited women?"

- A given proportion of women was imposed
- A given proportion of women was suggested
- No specific guidelines

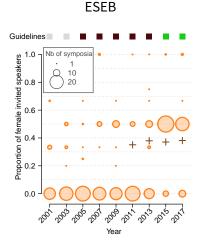
Diversity of perception of guidelines for congress symposia

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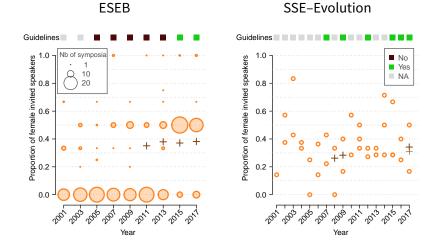
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Diversity guidelines have a positive effect on the proportion of female invited speakers

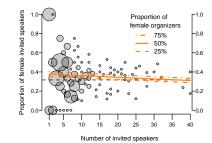


Diversity guidelines have a positive effect on the proportion of female invited speakers



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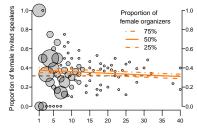
Another small effect



Conferences

Another small effect





Number of invited speakers

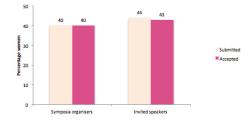
A possible solution:

Public lists of female scientists, e.g. Diversify EEB https://diversifyeeb.com

-			NIX BONS	Q,	
Narre: •	Attiliated 0 Institution	Ernall Address:	weste:		
Abiget Cehill	Albion College	acahiligabian.edu	https://weekill.weekly.com/	\odot	
Aditi Sengupta	University of Arizona	ssenguptağırmallarizona.edu	http://biosphere2.org/seesech/directory/addi-serrgupta	Θ	
Adria C LeBoeuf	Weizmann Incluze of Science	adria.interratiggmail.com	http://wikiaiskoouf.com/	Θ	
Adriena Briscoe	University of Colifornia - Invine	abrisceeljusi.edu	http://wiongene.bio.sci.edu/kdrims_Briscos/Briscos_Lab/Hrs1	Θ	
Adriana Lopez- Vilalobes	Queen's University	ispezv.adriana@gmail.com		Θ	
Aerin Jacob	Liber Bro Foundation, University of Victoria	aeringy2y.ret	HIp/Junuaerinjacob.co	0	

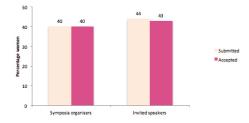
Most diversity statements are not about quotas;

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source: http://evolutionmontpellier2018.org/equal-opportunity

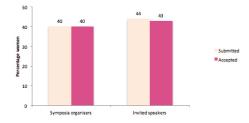
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"Choosing the best people irrespective of gender"

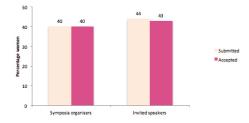
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- "Choosing the best people irrespective of gender"
 - Defining "best"

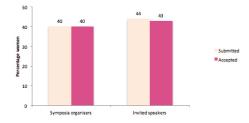
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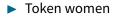
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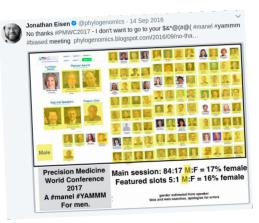


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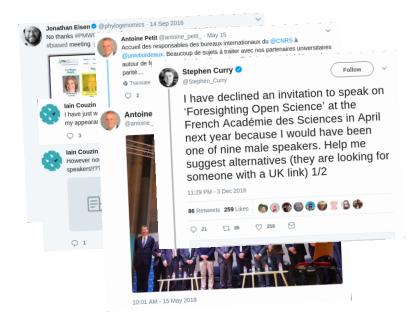








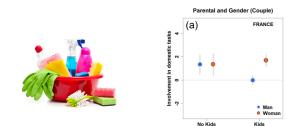
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Society issues

Loison et al. (2017) European Educational Research Journal

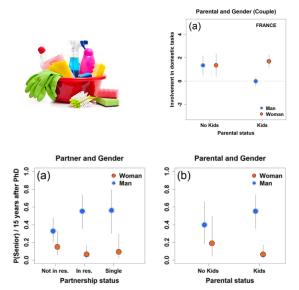
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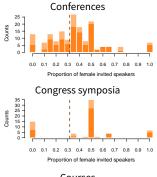
Parental status

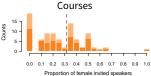
Society issues



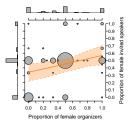
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- Disparity of proportion of women across types of events:
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 - Courses: Lower than 32% baseline;

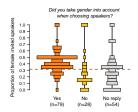




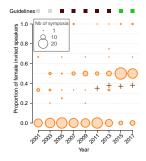
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- Disparity of proportion of women within Conferences, depending on whether gender was taken into account by the organizers;
- Diversity guidelines have a positive effect on the proportion of female invited speakers.





"La question de l'inégalité des sexes est éminemment politique. Ce modèle inégal est la matrice de tous les autres régimes d'inégalité."

Françoise Héritier (1933–2017)



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Vous citez souvent l'anthropologue et féministe Françoise Héritier. Pourquoi ?

« L'inégalité des sexes est la matrice de tous les autres régimes d'inégalité. » En me questionnant sur la couleur de peau, j'ai découvert que la problématique de domination culturelle était la même avec les femmes. Et c'est pareil avec l'homophobie. Tout est une question d'éducation.

Lilian Thuram (1972–)

source: Entretien avec L. Thuram, Le Monde, octobre 2016 https://www.lemonde.fr/la-matinale/article/2016/10/23/lilianthuram-a-l-ecole-on-m-appelait-la-noiraude_5018739_4866763.html



Thanks for your attention!