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# DIVERSITY-X: EIN TOOL ZUR MESSUNG DER GENDER- UND NATIONALEN ZITATIONS-DIVERSITÄT

Sabine Trepte & Maike Braun 21.03.2025

Innovativ – Exzellent – Sichtbar: Frauen in Wissenschaft, Wirtschaft und Gesellschaft  
*Fachtagung des Metavorhabens Innovative Frauen im Fokus (Meta-IFiF)*

## DAS DIVERSITY-X TEAM



Prof. Dr.  
Sabine  
Trepte



Prof. Dr.  
Michael  
Scharkow



Dr. Maike  
Braun



Astrid Jansen

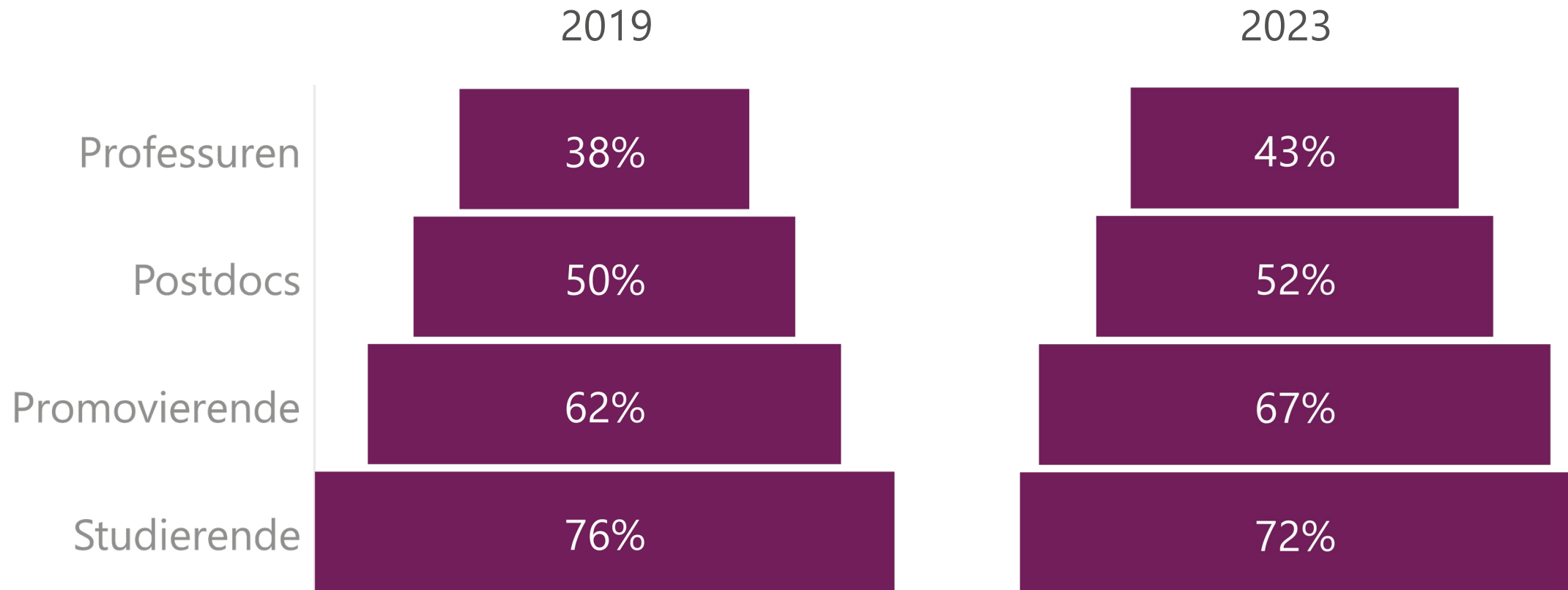


Laura Heintz

# **GENDER DIVERSITÄT IN DER WISSENSCHAFT**



# WIR SIND AUF DEM RICHTIGEN WEG





# MITGLIEDSCHAFTEN IN FACHGESELLSCHAFTEN SIND RELATIV AUSGEGLICHEN

	<i>N</i>	Weiblich	Männlich	Nicht-binär
<b>Deutschland</b>	1.165	52%	48%	
<b>Österreich</b>	109	51%	49%	
<b>Schweiz</b>	264	50%	50%	
<b>International</b>	4.481	61%	38%	1%





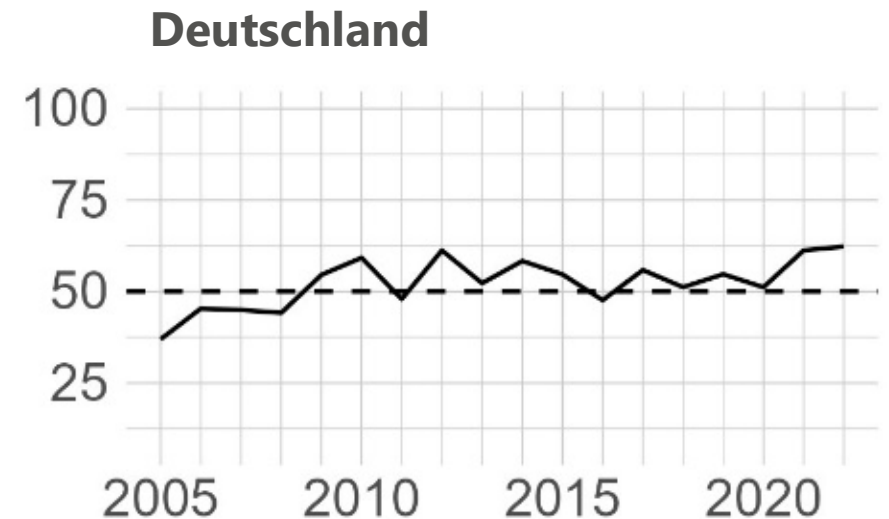
# ES GIBT KEIN GENDER-GAP AUF KONFERENZEN

Konferenzen der International Communication Association (ICA)  
im Zeitraum von 2005 – 2022

$n = 86.719$  Beiträge,  $n = 32.227$  Autor:innen

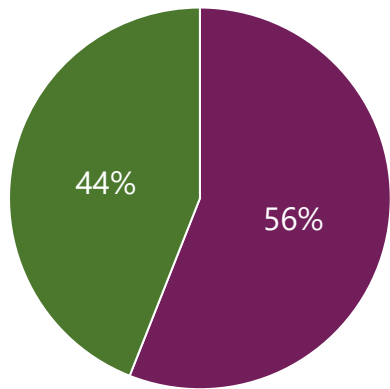
Anstieg des Frauenanteils um 4% alle 10 Jahre

Zwischen 49% und 59% Autorinnen seit 2005



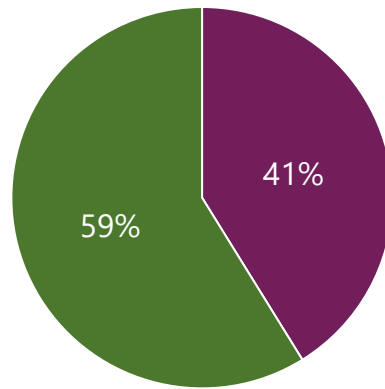


# DAS GENDER-AWARD-GAP STEIGT MIT DEM PRESTIGE



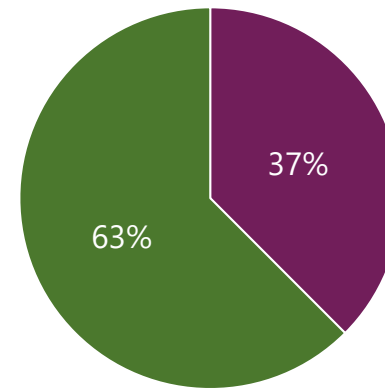
■ Frauen ■ Männer

Preis für die beste  
Nachwuchs-  
Tagungseinreichung



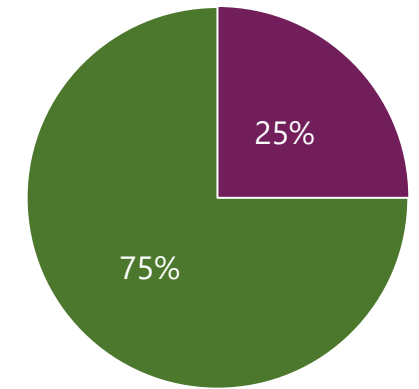
■ Frauen ■ Männer

Dissertations-  
förderpreis



■ Frauen ■ Männer

Preis für den besten  
Zeitschriftenbeitrag



■ Frauen ■ Männer

Theoriepreis

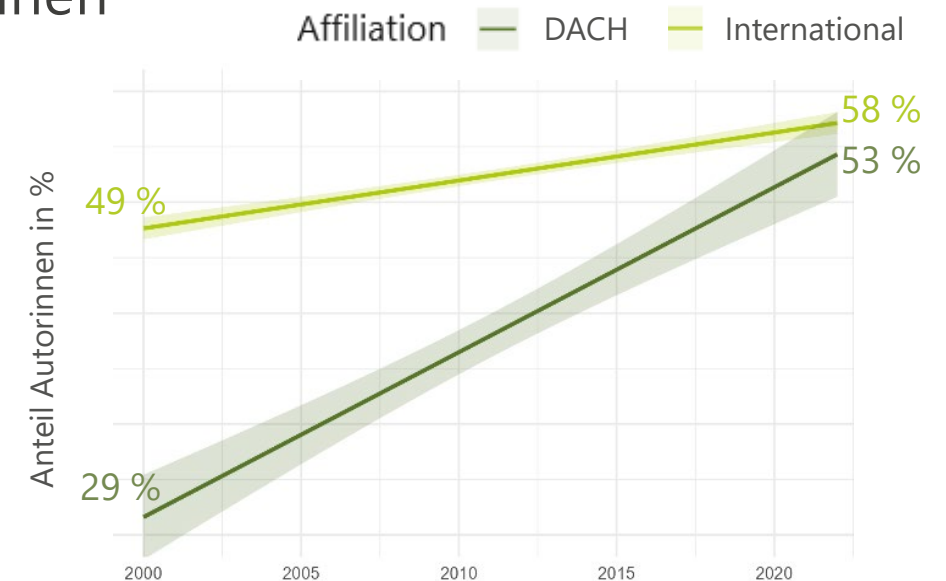


# DAS GENDER-PUBLICATION-GAP IST GESCHLOSSEN

Analyse von 90 kommunikationswissenschaftlichen Zeitschriften von 2000-2022  
 $n = 60.470$  Artikel,  $n = 57.551$  Autor:innen

Mehr weibliche (52%) als männliche (48%) Autor:innen

- Internationaler Anstieg des Frauenanteils von 49% in 2000 auf 58% in 2022
- Anstieg des Frauenanteils in Deutschland, Österreich und der Schweiz von 29% in 2000 auf 53% in 2022



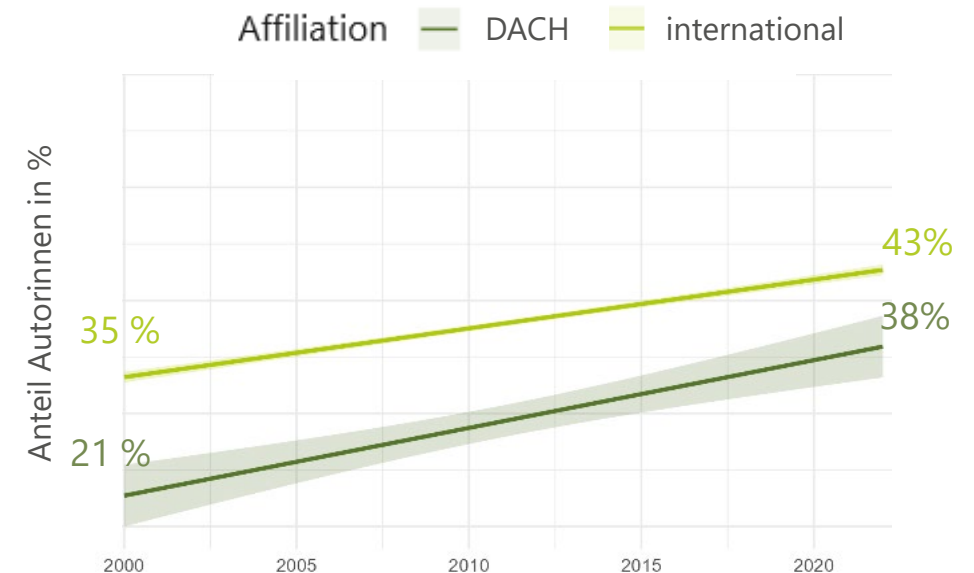


# DAS GENDER-CITATION-GAP BESTEHT WEITERHIN

Analyse von 82 kommunikationswissenschaftlichen Zeitschriften von 2000-2022  
 $n = 511.824$  zitierte Artikel,  $n = 437.433$  zitierte Autor:innen

Mehr männliche (61%) als weibliche (39%) Autor:innen zitiert

- Zitationen Autorinnen international von 35% in 2000 auf 43% in 2022
- Zitationen Autorinnen aus Deutschland, Österreich und der Schweiz von 21% in 2000 auf 38% in 2022







# DAS AMBIVALENTE SOCIAL MEDIA GENDER-GAP

Analyse von Twitter Profilen von Kommunikationswissenschaftler:innen in 2022  
 $n = 8.346$  Profile,  $n = 836.109$  Tweets

52% weiblich, 48% männlich, 0.3% nicht-binär

- Männliche Profile ( $M = 1.908$ ) hatten mehr Follower als weibliche ( $M = 1.446$ ) und nicht-binäre Profile ( $M = 1.570$ )
- Weibliche Profile erhalten mehr Likes, Replies und Retweets als männliche Profile



**ES GIBT KEINEN MANGEL AN  
KOMMUNIKATIONS-  
WISSENSCHAFTLERINNEN,**

**ABER IHRE WAHRNEHMUNG  
BLEIBT PROBLEMATISCH**

# DIE APP DIVERSITY-X



# WAS MACHT DIVERSITY-X?

Überprüft die **Geschlechterdiversität** zitierter Autor:innen

Überprüft die **nationalen Diversität** zitierter Autor:innen

Überprüft die **Aktualität** zitierter Literatur



# UPLOAD DES DOKUMENTS

Diversity-X v1.0

Home

Results

Author List

About

Imprint

Privacy Statement



**Drop your PDF here!**

Any PDF file, max. 5 MB

## Instructions

### What you submit:

A PDF file including the references you would like to check [DOIs](#).

### What you get:

A summary of the gender and national diversity of cited authors for references that include a DOI.

### How it works:

The tool uses <https://openalex.org/> to identify authors and their affiliations for articles with a DOI.

The gender of authors is then analyzed based on a database of names in which we mainly predicted the gender with <https://gender-api.com/en/>.



**Drop your PDF here!**

Any PDF file, max. 5 MB

Upload complete

Found 53 references with DOI

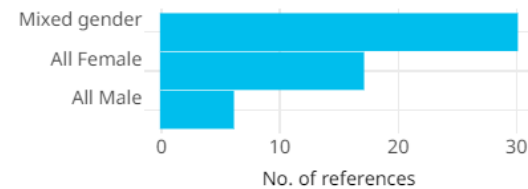
## Gender Diversity

56%

female authors

*Gender detected for 98% of 184 authors*

## Gender of Cited Co-Author Teams



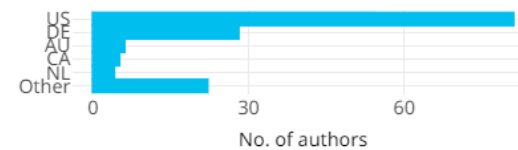
## National Diversity

55%

US-affiliated authors

*Country detected for 79% of 184 authors*

## Authorship by Country of Affiliation



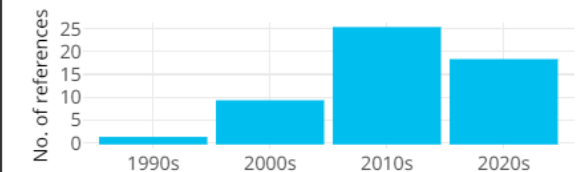
## Time Trends

39%

references from the last 5 years

*Year detected for 100% of 53 references*

## References by Decade



# DIVERSITY-X DASHBOARD

## Geschlechterdiversität

- Anteil weiblicher Autorinnen
- Geschlechtsaufklärungsrate
- Geschlechterhomogenität der Autor:innenteams

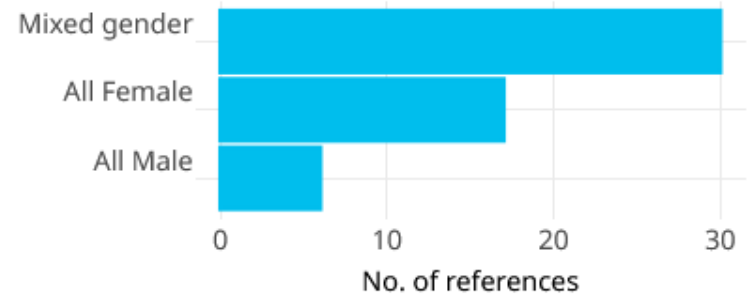
### Gender Diversity

56%

female authors

*Gender detected for 98% of 184 authors*

### Gender of Cited Co-Author Teams





# DIVERSITY-X DASHBOARD

## Nationale Diversität

- Anteil an in den U.S.A. affilierten Autor:innen
- Aufklärungsrate für die nationale Zugehörigkeit
- Anzahl der zitierten Autor:innen aus den fünf am häufigsten zitierten Ländern

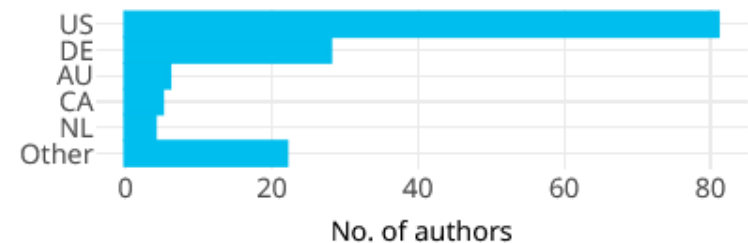
### National Diversity

55%

US-affiliated authors

*Country detected for 79% of 184 authors*

### Authorship by Country of Affiliation



# DIVERSITY-X DASHBOARD

## Aktualität der zitierten Artikel

- Anteil der Referenzen aus den letzten fünf Jahren
- Aufklärungsrate für das Publikationsjahr
- Verteilung der Referenzen nach Publikationsdekade

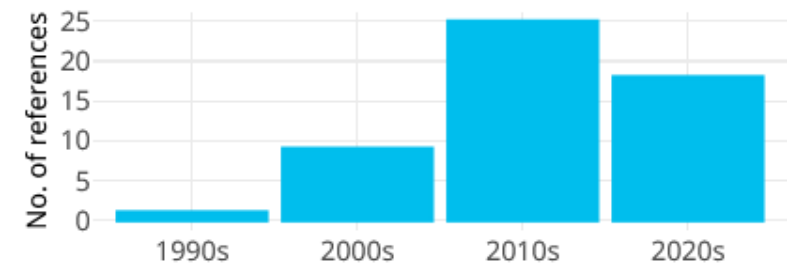
### Time Trends

39%

references from the last 5 years

*Year detected for 100% of 53 references*

### References by Decade



# BACKEND

(1) Identifikation der zitierten Artikel anhand von Digital Object Identifiers



(2) Abruf der Autor:inneninformationen mit openalex.org



(3) Abgleich der Namen mit unserer Datenbasis



(4) Erstellen einer Liste der Autor:innen, Geschlecht und Nationalität

# STEP 1: DOI

## Extraktion der mit DOI zitierten Literatur

- Diversity-X sucht im hochgeladenen pdf nach DOIs
- Diese befinden sich in der Regel im Literaturverzeichnis
- Aktuell ist in den meisten Fächern Vorgabe, die DOI im Literaturverzeichnis anzugeben

### References

- Media Authority NRW. 2019. Informationsverhalten bei Wahlen und politische Desinformation [Information Behaviour in Elections and Political Disinformation]. [https://www.medienanstalt-nrw.de/fileadmin/user\\_upload/lfm-nrw/Service/Pressemitteilungen/Dokumente/2019/Praesentation\\_forsa\\_Desinformation\\_LFMNRW.pdf](https://www.medienanstalt-nrw.de/fileadmin/user_upload/lfm-nrw/Service/Pressemitteilungen/Dokumente/2019/Praesentation_forsa_Desinformation_LFMNRW.pdf)
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```
extract_dois <- function(x) {  
  str_extract_all(x, "10\\.\\d{1,9}/[-._;()/:a-zA-Z0-9]+") %>%  
  unlist() %>%  
  str_remove("\\\\W$") %>%  
  tolower() %>%  
  str_trim() %>%  
  unique() %>%  
  na.omit()  
}
```

# STEP 2: OPENALEX.ORG

## Autor:inneninformation auf openalex.org

- Name
- Aktuelle Affiliation
- Frühere Affiliationen
- Verknüpfung mit ORCID

The image shows a screenshot of the OpenAlex website. The top part of the page displays the title of a work: "Gender diversity at academic conferences—the case of the International Communication Association". Below the title, there are buttons for "HTML", "API", and a help icon. The main content area shows the author's name "Maike Braun" and her role as "Author". There are buttons for "View works", "Claim profile", "API", and a help icon. Below this, the author's information is listed: "Alternate name Maike Braun", "Institution University of Hohenheim", and "Past institutions University of Hohenheim, Friedrich-Alexander-Universität Erlangen-Nürnberg". At the bottom, there is a code snippet for an R function that looks up an author's ORCID profile.

```
ORCID: r_lookup_doi <- function(doi) {  
  doi <- str_remove(doi, "/$")  
  if (!str_detect(doi, "http")) doi <- paste0("https://", doi)  
  url <- paste0("https://api.openalex.org/works/", doi)  
  jsonlite::fromJSON(url)  
}
```

# STEP3: DIE DATENBASIS

- 58.121 Namen-Geschlechtszuordnungen aus den vorherigen Studien des Projekts
- Größtenteils automatische Geschlechterkodierung mit Gender API
- Regelmäßige Aktualisierung der Datenbasis
- Option für Autor:innen, ihren eigenen Eintrag in der Datenbasis korrigieren zu lassen

Sabeen	female	female
Sabiha	female	female
Sabiha	female	female
Sabina	female	female
Sabine	female	female
Sabitha	female	female
Sabrina	female	female
Sabryna	female	female
Sacha	female	female
Sachi	female	female
Sachiko	female	female
Sachiyo	female	female
Sada	female	female
Sadaf	female	female
Sadia	female	female
Sadie	female	female
Sae	female	female
Saeni	female	female
Saesha	female	female
Safiya	female	female
Sagar	male	male
Sagi	male	male
Sahana	female	female
Sahana	unknown	unknown
Sahar	female	female
Sahara	female	female
Sai	male	male
Sai	male	male
Saidatta		male
Saif	male	male
Saifuddin		male
Saifuddin		male
Saifuddin		male
Saifur	male	male
Saila	female	female
Saila	female	female
Sailaja	female	female
Sait	male	male
Sakari	male	male

Garabed	male	male
Sujuan	female	female
Xingliang		male
Shengjun		male
Shichang		male
Thakor	male	male
Purushotham		male
Annaswamy		male
Viral	male	male
Dinakar	male	male
Moïse	male	male
Yinshan	female	female
Labib	male	male
Nayef	male	male
Ronette	female	female
Frangiscos		male
Monina	female	female
Malakeh	female	female
Ulkem	female	female
Pr	male	male
Fiorino	male	male
Doryliz	female	female
Chiyong		male
Sarbajit		male
Jaeyoung		male
Kusol	male	male
Kunie	female	female
Fati	female	female
Roonak	female	female

<b>Maïke</b>	female	female
Maili	unknown	unknown
Maira	female	female
Maire	female	female
Mairead	female	female
Maisoon	female	female
Maïssa	female	female
Maïte	female	female
Maity	male	male
Maj	female	female
Maja	female	female
Maja	female	female
Maja	female	female
Majedah	female	female
Makiko	female	female
Maksym	male	male
Mal	female	female
Malavika		female
Malcolm	male	male
Malcolm	male	male
Malgorzata		female

<b>Michael</b>	male	male
Karl	male	male
Samita	female	female
Nadiyah	female	female
Gamal	male	male
Prasha	female	female
Thamar	female	female
Lixiu	female	female
Olve	male	male
Geciane	female	female
Leonora	female	female

# EINSATZ DIVERSITY-X IN DER FORSCHUNG

## Qualitätssteigerung

- Aufdecken systematischer Zitationslücken und Finden relevanter Literatur
- Repräsentation und Facettenreichtum bzgl. Geschlecht und Nationalität

## Effizienzgewinn

- Reporting von Diversität im Einreichungsprozess
- Aktualitätsprüfung

# EINSATZ VON DIVERSITY-X IN DER LEHRE

## Qualitätszugewinn für Lehrende

- Syllabi und Leselisten auf Zitationslücken überprüfen
- Repräsentation des Forschungsfeldes und der Diversität Studierender sicherstellen

## Sensibilisierung für Diversität und Repräsentation

- Integration in die Abgaben von Hausarbeiten und Abschlussarbeiten
- Aufmerksamkeit für Zitationslücken erzeugen



## National and gender analysis of six

Sabine Trepte and Laura Hein  
School of Communication

### ABSTRACT

Researchers' national goals of our disciplines perspectives. We compare diversity of authors in journals between 20 boards: 80% of the 1 Gender distribution authors from other female members. We to weigh research quality diversity in academic

*Journal of Communication*, 2023, **73**, 601–615  
<https://doi.org/10.1093/joc/fjad032>  
Original Article



International  
Communication  
Association

OXFORD

## Gender diversity at academic conferences—the case of the International Communication Association

Maïke Braun<sup>1,\*</sup>, Laura Hein<sup>2</sup>

<sup>1</sup>Institute of Communication, University of Applied Sciences  
<sup>2</sup>Department of Communication  
\*Corresponding author: Maïke Braun

### Abstract

Gender diversity and the lack of about gender diversity at academic Communication Association (ICA) the introduction of childcare, diversity authors' gender, and national ICA membership. We found differences availability of childcare, and during

**Keywords:** diversity, gender, academic

## Authors' Gender and Productivity as Predictors of Reciprocal Dynamics in Publications and Citations in Communication

Astrid Jansen<sup>1</sup>, Sabine Trepte<sup>1</sup>, & Michael Scharkow<sup>2</sup>

<sup>1</sup>Institute

<sup>2</sup>Department

## Gender differences in communication scientists' Twitter communication

Laura Hein

## Gender Diversity in the Field of Communication in DACH Countries—A Scientometric Analysis of the Scientific Job Market, Publications, Citations, and Grants



**DIVERSITY-X.DE**

# LITERATUR

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# LITERATUR

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