



# Gender in the Global Research Landscape

- *establishing a scalable framework to support policy evidence*

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**Vice President, Global Strategic Networks**

**On behalf of the report team**

Empowering Knowledge

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## Agenda



- Background & Context
- Gender in the Global Research Landscape - *introducing a new methodology*
- Some results from our global report

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## Global Framework

GLOBAL RESEARCH COUNCIL | HOME | ABOUT | STATEMENT OF PRINCIPLES | GOVERNING BOARD

Statement of Principles and Actions Promoting the Equality and Status of Women in Research

- <https://www.elsevier.com/research-intelligence/research-initiatives/sustainability-2015>
- <https://www.elsevier.com/research-intelligence/research-initiatives/gender-2015>

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## A Strong Foundation

### THE ELSEVIER FOUNDATION

**Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World**

***New Scholars Program:***  
***10 years, 50 grants, ca \$2.5 million***




Advancing women scientists: grants for family friendly policies, career skills, dual career issues, recognition awards, benchmarking studies & boosting professional visibility through childcare grants.

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## Economic Dividends for Gender Equality (EDGE) Certification

- see further poster tomorrow!



**Elsevier Japan:**  
+200 employees  
~ 60% women  
~ 38% women managers

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# Mapping the Global Research Landscape with a gender lens

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## For evidence policies we need to know..

- Share of men/women researchers
- How it differ between countries
- How it change over time
- Subject areas
- Citation pattern
- Collaboration
- ...

**Need comprehensive source** →

## Scopus®

- Largest abstract and citation database
- Global coverage:
  - 22,500 titles from more than 5,000 international publishers.
  - 21% of titles in languages other than English
- Trusted:
  - Widely used by universities
  - Used by NSF, JST, JSPS, UK REF, AUS ERA
  - Global rankings: QS, THE, Shanghai Jiao Tong

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## The information is all there,.. almost

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### Document details

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Current Biology  
Volume 23, Issue 4, 16 February 2013, Pages 298-300

**Dung beetles use the milky way for orientation** (Article)

Dacke, M.<sup>1,2</sup>, Balid, E.<sup>1</sup>, Byrne, M.<sup>2</sup>, Scholtz, C.H.<sup>2</sup>, Warrant, E.J.<sup>1</sup>

<sup>1</sup> Department of Biology, Lund University, 223 62 Lund, Sweden

<sup>2</sup> School of Animal and Environmental Sciences, University of the Witwatersrand, Wits 2050, South Africa

#### Scopus author profile

- First names
- Unique identifier
- Affiliation (Inst. & Country)
- First, corresponding author
- Subject area
- Citation information
- Downloads
- Collaboration

View additional affiliations

**Dacke, Marie**  
Lunds Universitet, Department of Biology, Lund, Sweden  
Author ID: 6602783291

View references (15)

**Abstract**

When the moon is absent from the sky, the moonless night sky is still manage to orientate along the Milky Way. Here, we show that dung beetles transport their dung balls along straight paths under a starry sky but lose this ability under overcast conditions. In a planetarium, the beetles orientate equally well when rolling under a full starlit sky as when only the Milky Way is present. The use of this bidirectional celestial cue for orientation has been proposed for vertebrates [10], spiders [11], and insects [5, 12], but never proven. This finding represents the first convincing demonstration for the use of the stary sky for orientation in insects and provides the first documented use of the Milky Way for orientation in the animal kingdom. © 2013 Elsevier Ltd.

seals [3], and humans [4] are known to use stars for orientation. African ball-rolling dung beetles use the Milky Way for orientation during intense competition at the dung pile [5-9]. Even on clear moonless nights, many beetles use the Milky Way for orientation, a feat that has, to our knowledge, never been demonstrated in an insect.

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## Gender Disambiguation Methodology

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WIPO  
WORLD  
INTELLECTUAL PROPERTY  
ORGANIZATION

genderize.io

NamSor

SOCIAL MEDIA

Education  
Mass culture  
Text  
Sociolinguistics  
Variation  
Style  
Critical  
Media

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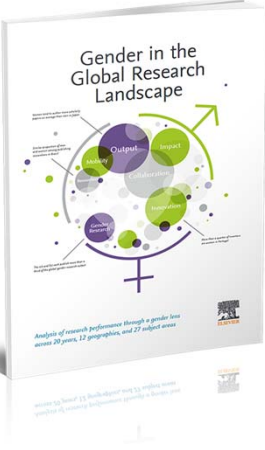
## Comparator Selection

- Global *coverage*
- Countries/regions with high research output
- Each with at least one comparable comparator
- Applicability of our gender disambiguation methodology
- At least two countries from each major region

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## Unique global data sources and analytical expertise



- **12 comparators**
  - Australia
  - Brazil
  - Canada
  - Chile
  - Denmark
  - EU28
  - France
  - Japan
  - Mexico
  - Portugal
  - UK
  - US
- **12 analyses**
  - Researchers
  - Scholarly output
  - FWDI (download impact)
  - FWCI (citation impact)
  - Inventors (WIPO)
  - Patent applications (WIPO)
  - Leadership
  - International collaboration
  - Cross-sector collaboration
  - Mobility
  - Interdisciplinarity
  - Gender Research
- **2 time periods**
  - 1996-2000
  - 2011-2015
- **27 subject areas**
  - Look at all fields
  - Results per ASCJ 27 areas

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## Report | 9 global advisors

United States



EU



Asia Pacific




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## Interviews

INTERVIEW




**Miyoko O. Watanabe**  
Deputy Executive Director, Office for Diversity and Inclusion,  
Japan Science and Technology Agency (JST), Japan

INTERVIEW




**James Stirling**  
Provost, Imperial College, United Kingdom

INTERVIEW



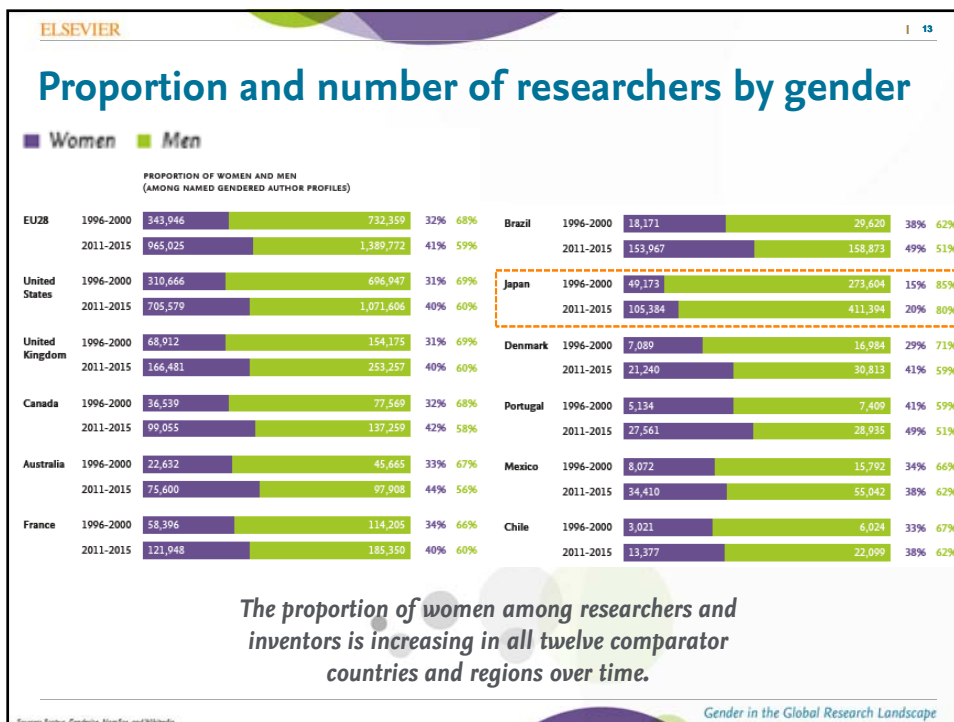
**Vladimír Šucha**  
Director-General, Joint Research Centre  
European Commission, European Union

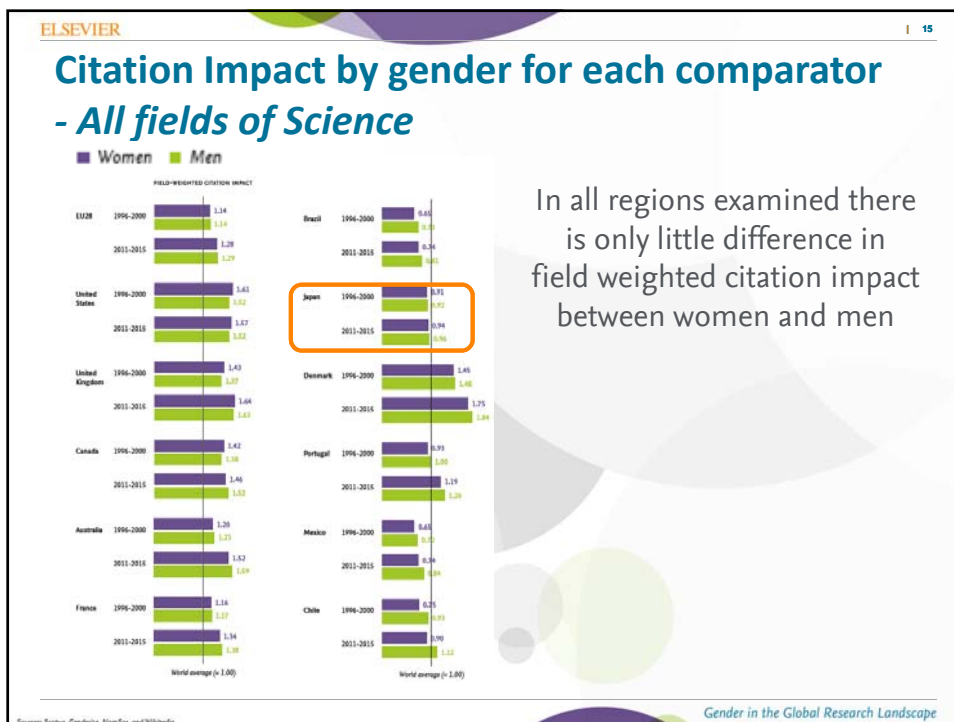
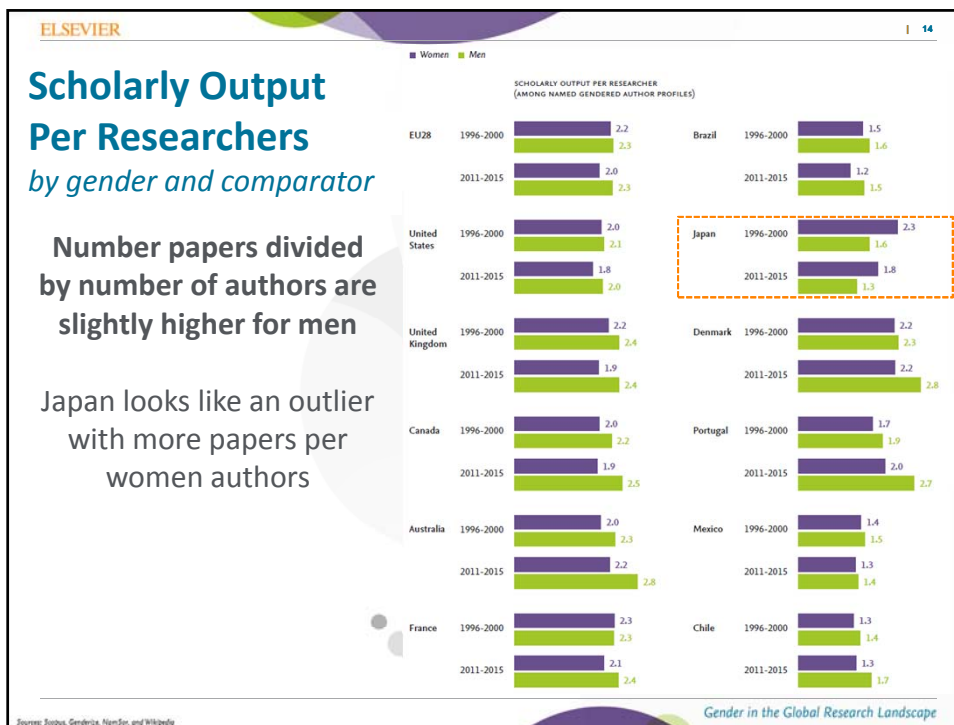
INTERVIEW



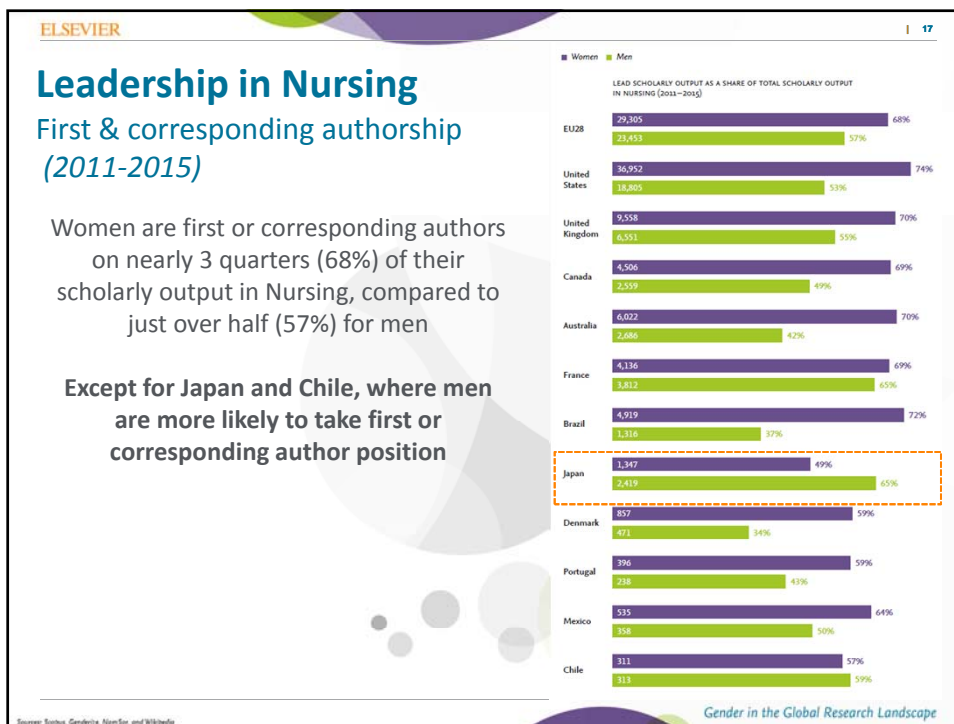
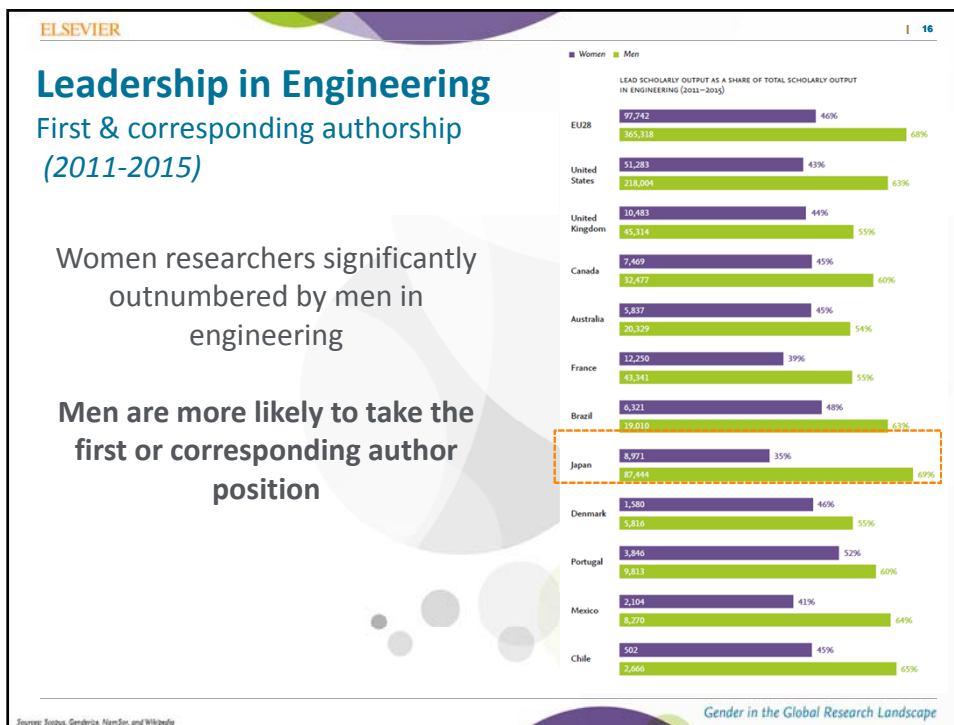
**Londa Schiebinger**  
The John L. Hinds Professor of History of Science and Director, Gendered Innovations in Science,  
Health & Medicine, Engineering, and Environment, Stanford University, United States

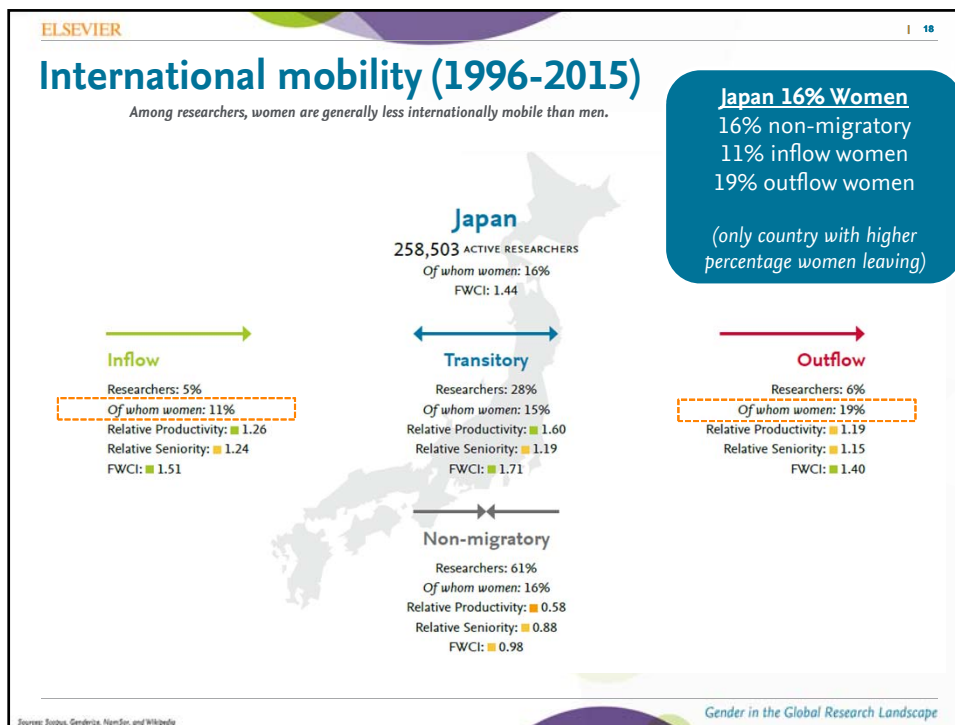
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## Where to learn more:

- Download the **Report & Infographic**
  - [https://www.elsevier.com/research-intelligence/resource-library/gender-report/\\_nocache](https://www.elsevier.com/research-intelligence/resource-library/gender-report/_nocache) – Full Report
  - <https://www.elsevier.com/research-intelligence/campaigns/gender-17> – Infographics
- Access the **References**
  - Public **Mendeley** group, a community resource
  - <https://www.mendeley.com/community/gender-in-the-global-research-landscape/>
- Gender & Research Resource Center**
  - Dynamic resource** with information about gender and women in STEM activities, initiatives, and programs
  - <https://www.elsevier.com/connect/gender-and-science-resource-center>

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