### **Re-Introducing**

### How We're Driving Change and How You Can Help

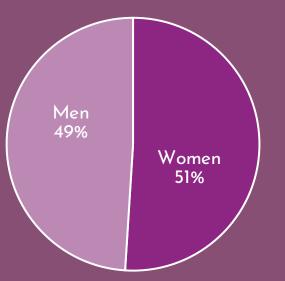
#### Eleanor Broadway, EPCC

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# Diversity in HPC:

SC'21 - Representation of Women in High Performance Computing (HPC) Conferences [1]

**General Population** 

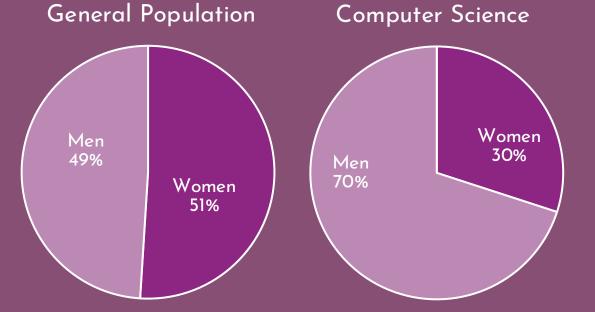


[1] Eitan Frachtenberg and Rhody D. Kaner. 2021. Representation of Women in HPC Conferences. In Proceedings of the International Conference for High Performance Computing, Networking, Storage and Analysis (St. Louis, Missouri) (SC '21). ACM.



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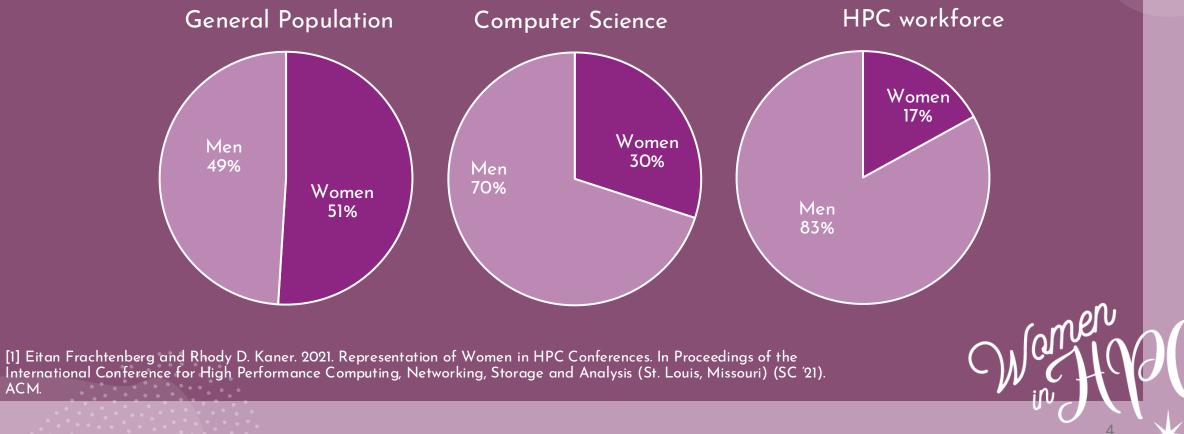


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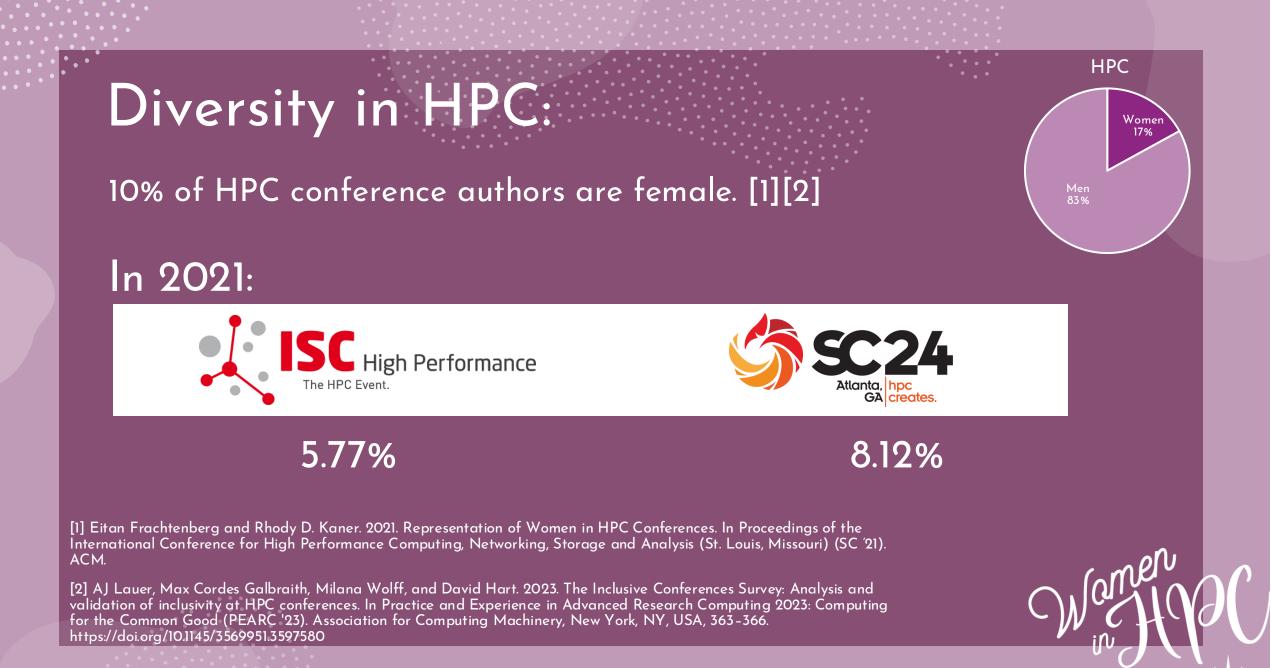


### Diversity in HPC:

SC'21 - Representation of Women in High Performance Computing (HPC) Conferences [1]



ACM



### "Diversity in HPC won't improve until we start counting" John West, SC'16 Chair [3]

SC16 = 13.3% female attendees [4]

SC21 = 14% female attendees [5]

[3] John West. n.d.. Diversity in HPC Won't Improve Until We Start Counting. Retrieved March 17, 2023 from

[4] https://scl6.supercomputing.org/diversity/

[5] https://sc21.supercomputing.org/attend/inclusivity/demographics/



# Why are there not more women in HPC?

WOMEN IN HIGH

PERFORMANCE C O M P U T I N G



### The WHPC Mission:

"To promote, build and leverage **a diverse and inclusive HPC workforce** by enabling and energising those in the HPC community to increase the participation of women and highlight their contribution to the success of supercomputing.

To ensure that women are treated fairly and have **equal opportunities to succeed** in their chosen HPC career.

To ensure everyone understands the **benefits of promoting and** achieving inclusivity."



### Goals:



- Bring the HPC community together.
- Raise awareness about underrepresentation and the impact on women, the community and research outputs/progress.
- Encourage the supercomputing community to embrace diversity and inclusivity initiatives.
- Provide fellowship, education and support to advocate for a more inclusive community for all.
- Visibility of women role models in HPC.

# History of WHPC

Apr	2013	WHPC is launched at <b>EPCC</b>	
Nov	2014	Start of regular workshops at SC and ISC	
Nov	2015	Website launch	
Feb	2018	Chapters and Affiliates Programme	
Mar	2019	Global Mentoring Programme	
May	2023	Travel Fellowship Initiative	
Feb	2024	Re-launch of Global Mentoring Programme	
May	2024	ISC become an official collaborator	

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### Current Focus Areas

- Development of early-career opportunities.
- Improving our visibility internationally.
- Increased emphasis on diversity and inclusion of both women and men from underrepresented groups: by explicitly broadening our scope, we hope to increase participation from other minority groups and particularly those individuals who feel marginalized across multiple dimensions.

## Overview of Recent Initiatives:



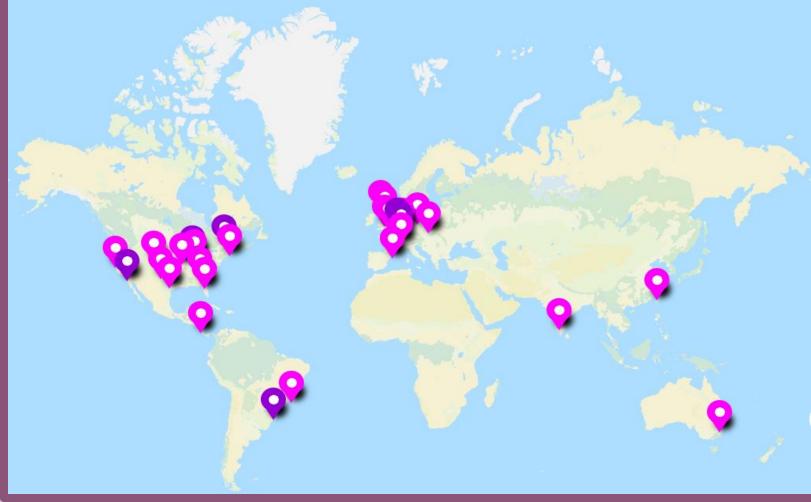


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# Finding your community



# Chapters and Affiliates





# Chapters and Affiliates



- EPCC, University of Edinburgh
- Numerical Algorithms Group (NAG)
- Thomas Young Centre, MMM Hub
- N8 CIR including the universities of: Leeds, Sheffield, Manchester, York, Newcastle, Durham, Liverpool, Lancaster.











### 2024: WHPC Announce Official Partnership with ISC

- Solution Forum Takeover
- Diversity Day
- Branded ice cream truck!
- Birds of a Feather: Mentoring
- Main track! Women in HPC Posters
  - Poster Pitch Opportunity
  - Networking Reception
  - Best Women in HPC Poster Award









# Join us in Georgia, Atlanta in November!

- Diversity Day
- Chapters+Affiliates Meet-Up
- Networking Reception



- 20th International WHPC Workshop:
  - Keynote speakers
  - Mid- and Late- Career Perspectives
  - Speed-Networking
  - Early-Career Lightning Talk

#### Highlights from SC23:

- 100% Workshop Capacity
- 1<sup>st</sup> Male Minority Travel Fellow
- 50% Increase in Early-Career Applications
- 300+ Networking Reception Attendees

### Early-Career Opportunities

- Opportunities to speak at international conferences can often be inaccessible or unwelcoming to early-career.
- WHPC offers the chance to present in a welcoming and inclusive environment, forge valuable networks, and attend with confidence.
  - Friendly Cohort
  - Expert mentorship
  - Publication of Abstracts
  - Travel Fellowships





# Global Mentoring Program

- Open 3 times a year, each cohort lasting 4 months.
- Receive one-to-one mentoring, training on how to make the most of mentoring, develop key skills, build your network!
- First cohort: 13 mentors, 17 protégés
- Second cohort: Launching mid-August 2024



# Measuring success:

21

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## How do we measure success?

- This is something that we are evolving as we grow.
- We get a feel of our success at the international events, with an evolving climate around diversity discussions and support from the community.
- Current initiatives include:
  - Statistics from conferences
  - Annual reports from Chapters and Affiliates
  - Move the Needle



#### Four Fun Facts for ISC24





024 marked the first time that Women in HPC worked in an offical partnership collaboration with the ISC Conference Series – resulting in 2x the level of engagement over 20231





Do IT Now returned in 2024 to secure WHPC Travel Fellowships into early 2025! In total their contributions have and will allow up to 6 individuals to attend ISC conferences.



03 MORE ACTIVITIES!

Thanks to our offical collaboration we added three more conference activites including: a Poster Pitch Session; a Birds of a Feather (BoF) Session; and provided attendees ice cream at two WHPC-branded kiosks!



Germany had the highest representation across all of our activities (Including a Travel Fellow), followed by the US and UK, respectively. A special mention goes to our Australia + New Zealand Chapter, who travelled the furthest to present!

23

### Annual Reports – Highlights!

#### <u>JuWinHPC</u>

Hosted a writeathon: "Increase Female Wiki-bility". Enthusiastic WHPC members met up to write Wikipedia profiles for female Julich professors to improve their visibility!





#### Australasian

Collaborated with Pawsey to host a Diversity & Inclusion Track at **SC Asia 2023!** 

## Annual Reports – Highlights!

#### **IDEAS4HPC**

Obtained a 3-year grant from the Simons Foundation, to help supporting young scientists attending summer schools and conferences!

#### WHPC at Purdue

Launched their own scholarship opportunities, mentorship programme, events AND workshops!





#### Taiwan

Conducted an outreach event for Taiwanese middle and high school girls, introducing them to HPC and the WHPC community!

### Move the Needle

**When:** 12 months (2024)

Who: HPC community:

**What:** Commitment to 1-3 actions aimed at advancing inclusion.

Why:Demonstrate achievement, celebrate success, address barriersGoal:Results to be published at CIUK (Dec 5-6, 2024)

#### <u>Halfway Report - Now Available</u>

THE

NEEDLE

### There's lots still to do! How can I help?

# Getting Involved with WHPC



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### Volunteering

- Executive Board: Oversees the global organization
  - Treasurer, Chapters+Affiliates, Comms, Outreach, Business Development, Research
- Event Organisation: Regular programmes at SC, ISC and others
  - Overall organising committee (submissions, receptions, merchandise, comms)
  - Contributing content to event programmes (finding speakers, submitting abstracts)
  - Reviewing
  - Mentoring
- Chapter/Affiliate Committees
- Global mentoring: mentee or mentor
- Website content/Job board
- Graphic design





### Sponsorship and Fundraising We couldn't do what we do without YOU!

#### Partnership Opportunities - 2024

At Women in HPC, we are bringing together women leaders and young career women in corporate organizations, research institutions, academia, and business. Together with our supporters and leaders in the community, we are creating opportunities for women to network, learn, and build connections and identify opportunities, whether they be for their next career step, training, education or skills.

For 2024 we are seeking partners to assist us with our global efforts through sponsorship. These sponsorships help build opportunities for women to be recognized in their field, enhance their skills, and create a more diverse HPC community.





### Community Engagement and Advocacy

#### Ideas collected at the ARCHER2 Celebration of Science event:

- Organising your own events?
  - Prioritise diversity representation amongst invited speakers.
  - Integrate diversity and outreach events directly into event programmes

INVOLVED #			CONTACT   SEARCH
DME		MEMBERSHIP	EVENTS BLOG
Keywords		Lacation	
		Remote positions only	
	SEARCH	JOBS	
Freelonce	🖸 Full Time 🖸 Full' Part Time 🗳 Internship 🗳 Part Time 🗳 Temporary		
			RSS
RIDC	R&D ASSOCIATE, APPLIED MACHINE LEARNING OAK RIDGE NATIONAL LABORATORY	Oak Ridge, TN	FULL TIME
RITCERS Conclusion Sections	SYSTEMS ADMINISTRATOR RUTERS UNIVERSITY OFFICE OF ADVANCED RESEARCH COMPUTING (OARC) Advanced computing $\delta$ data to revolutionize science $\delta$ scholarship	New Jersey, USA	FULL TIME
Ances for them	DATA SCIENTIST (BIOMEDICAL AND CLINICAL INFORMATICS) RUTGERS UNIVERSITY OFFICE OF ADVANCED RESEARCH COMPUTING (DARC) Advanced computing & data to revolutionize science & scholarship	New Jersey, USA	FULL TIME
Yale	SENIOR RESEARCH COMPUTING FACILITATOR (AI/ML FOCUSED)	New Haven, CT	FULL TIME

#### • Day-to-day:

- Be vocal about your support, let others know you are a safe and friendly ally.
- Internal lightning talks to learn what your colleagues do: promotes respect for all contributions, ensures voices are heard.
- Collect feedback, hear from everyone.

See: https://womeninhpc.org/women-in-hpc/how-can-we-inspire-inclusion-within-the-hpc-community<sup>2</sup>



# Questions?

Get in touch to find out more: info@womeninhpc.org, e.broadway@epcc.ed.ac.uk amen