

RSE in HPC

Workshop



Miranda Mundt - US RSE Steering Committee Member



UNIVERSE-HPC

Understanding and Nurturing an Integrated Vision for Education in RSE and HPC

About the project

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Photo credit: Jeremy Thomas on Unsplash

UNIVERSE-HPC will define a training curriculum framework – spanning from undergraduate to continuing professional development level - for Research Software Engineers (RSEs) specializing in high performance computing (HPC).



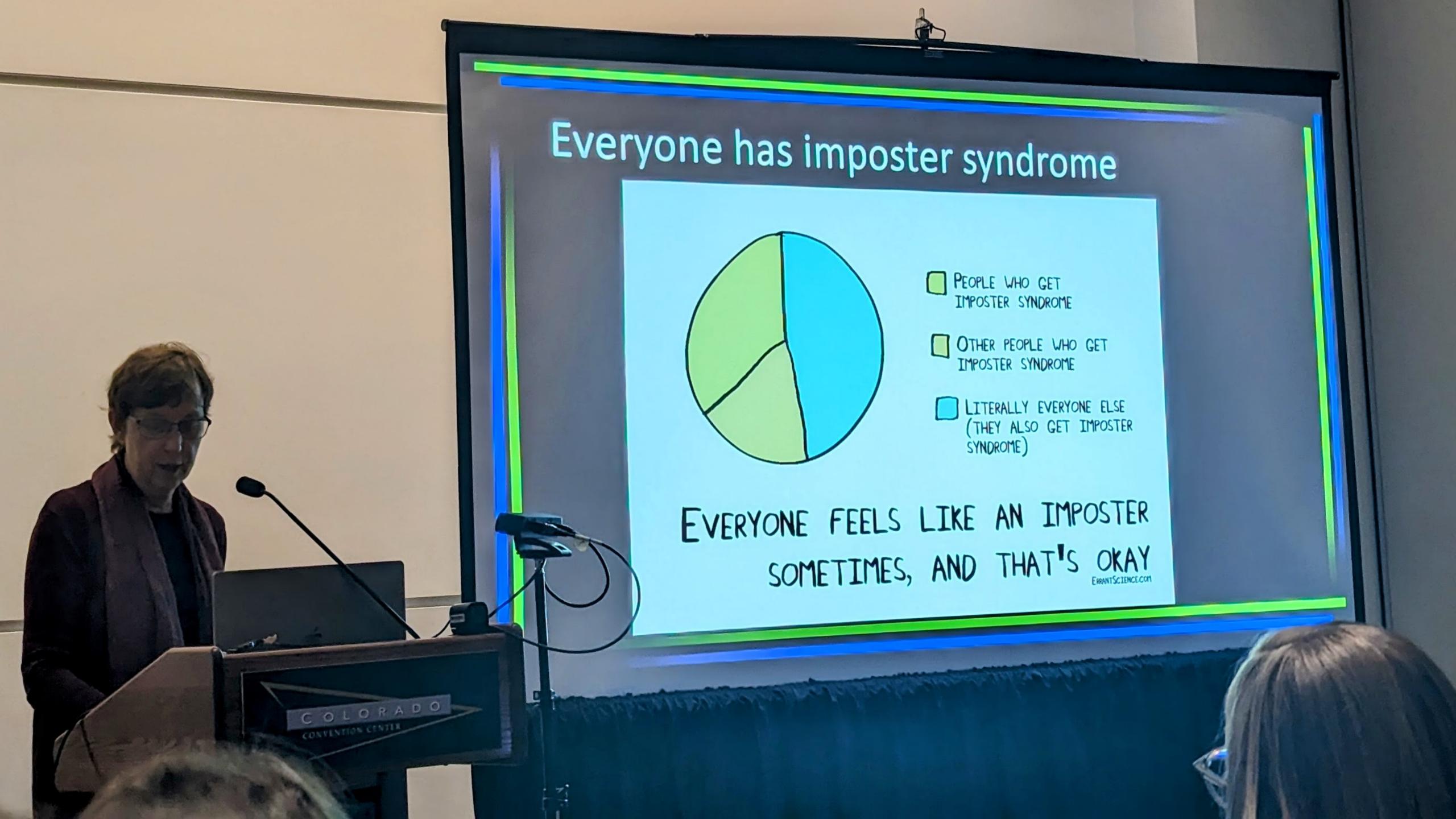




Workshop

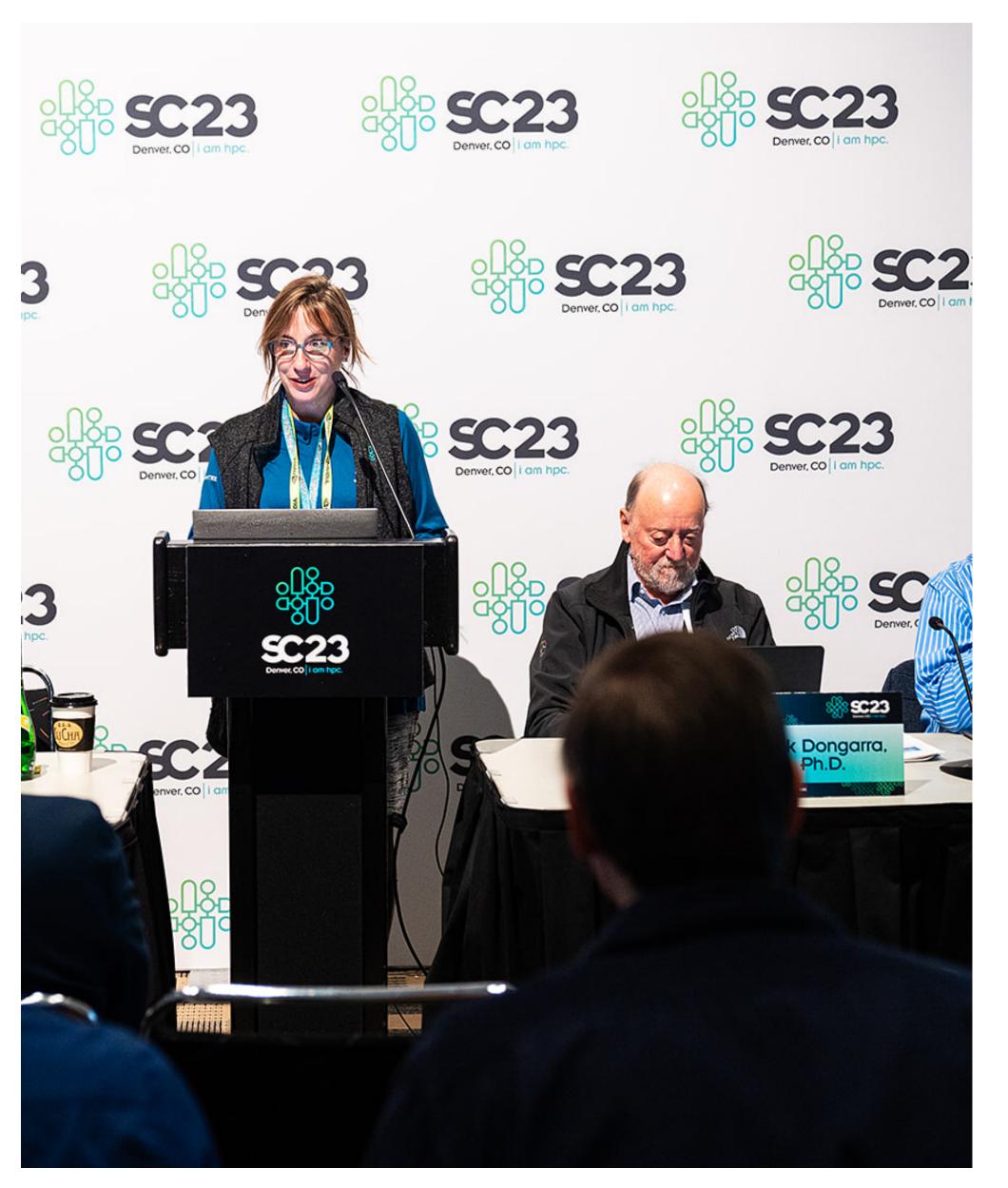


Barbie-inspired WHPC banner





Press Release TOP500



Announcing the 62nd TOP500 list

	#								
		Site	Manufacturer						
	1	Oak Ridge National Laboratory	HPE	Computer	ountry		Rmax	Power	
	2	Argonne National Laboratory		AMD EPYC 64C 2.0GHz, Instinct MI250X, Slingshot-11	USA	8,699,904	[Pflops]	[MW]	
		Laboratory	Intel	HPE Cray EX/Intel Exascale Compute	USA	4,742,808	585	3 2/	1.7
-	3	Microsoft Azure	Microsoft	Xeon Max 9470, Data Center GPU Max, Slingshot-11 Eagle Microsoft NDv5,					
	4	RIKEN Center for Computational Science	Fujitsu	Fugaku	USA	1,123,200			
4	5	EuroHPC / CSC	UDE	Supercomputer Fugaku, A64FX 48C 2.2GHz, Tofu interconnect D	Japan	7,630,84	8 44	2.0	29.9
			HPE	AMD EPTC 64C 2.0GHz, Instinct MI250X, Slingshot-11	Finland	2,752,7	04 37	79.7	7.1
6		EuroHPC / CINECA	Atos	Atos BullSequana XH2000, Xeon 32C 2.6GHz, NVIDIA A100, HDR Infiniband	Italy	1,824,7	68 2	38.7	7.4
7		Oak Ridge National Laboratory	IBM	Summit IBM Power System, P9 22C 3.07GHz, Mellanox EDR, NVIDIA GV100	USA	2,414,	592	148.6	10.1
3		EuroHPC / BSC	EVIDEN	MareNostrum 5 ACC BullSequana XH3000, Xeon Platinum 8460Y+, NVIDIA H100, IB NDR200	Spain	680	,960	138.2	2.
1		NVIDIA Corporation	NVIDIA	Eos NVIDIA DGX SuperPOD NVIDIA DGX H100, Xeon Platinum 8480C 56C, NVIDIA H100, IB NDR400	USA	48	5,888	121.4	4
		Lawrence Livermore	JBM	Sierra IBM Power System	USA	1.57	72.48	0 94	6

HPC and Cloud Converged Computing Panel

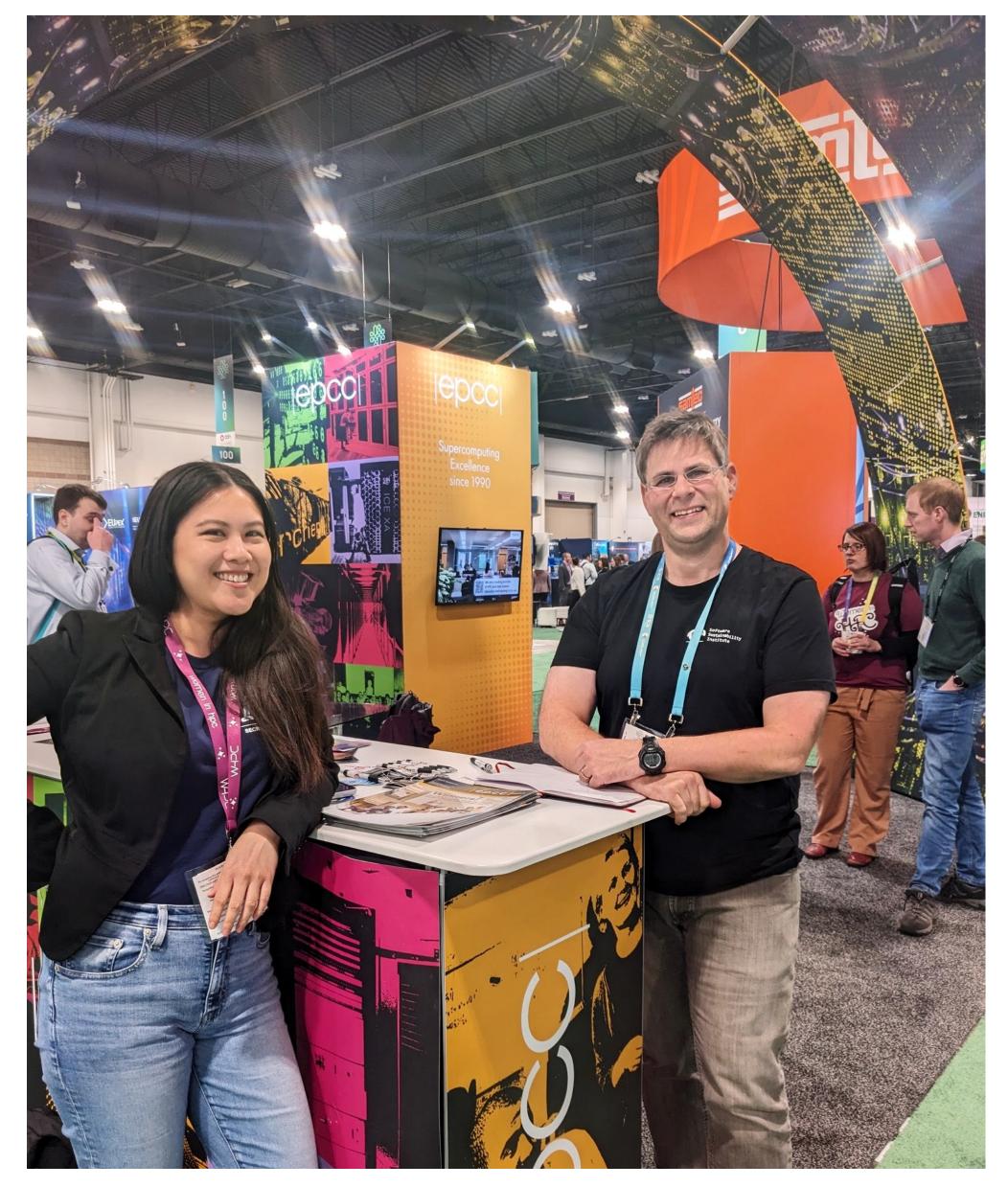
- Cloud is projected to be the largest sector of computing revenue by 2025
- Integrating technologies from each HPC and Cloud into the other leads to Converged Computing, an environment that combines the best capabilities from both worlds
- Cloud providers branded "arrogant" by academics in the audience
- HPC community is no longer driving the conversation as AI and hyperscalers grow their market share



Panellists from academia and major cloud providers

Exhibitor Floor

330 stands 54,000 m² (almost 8 football pitches)



Jenny and Andy Turner at the EPCC Stand

HPSF

- Linux Foundation announced their intention to form the High Performance Software Foundation (HPSF)
- Mission is to nurture a portable software stack to leverage "cloudy" HPC workflows
- Supported open source projects include Spack, Kokkos, Apptainer and more...
- Where does this leave other initiatives such as OpenHPC and EESSI?



Todd Gamblin, LLNL and Spack creator, announces HPSF



HPCWire Awards

BlueBEAR wins Readers' Choice Awards for Best Use of HPC in Industry and Best Use of HPC in Physical Sciences



Thank you!

