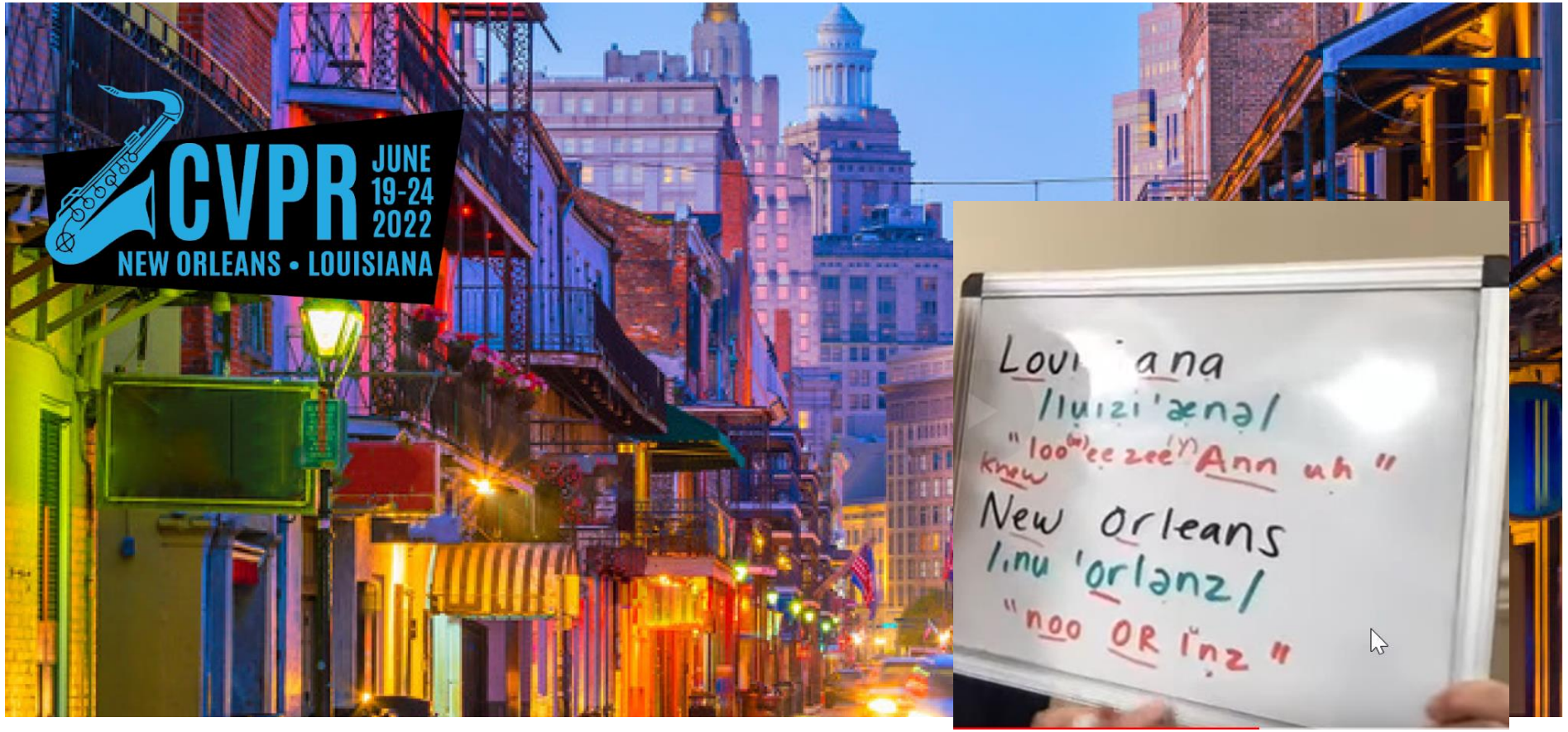
Welcome to CVPR 2022

IEEE computer society

CVF

Welcome to CVPR 2022



IEEE computer society

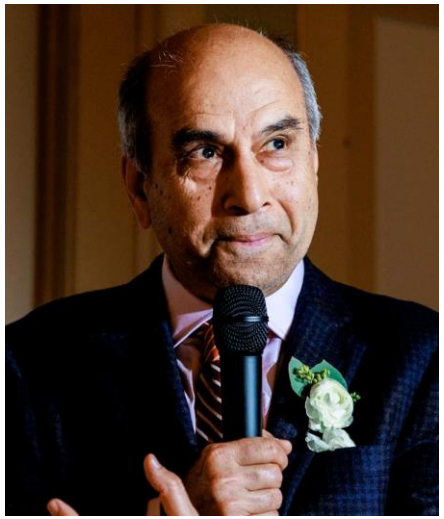
CVF

General Chairs

Rama Chellappa

Jiri Matas

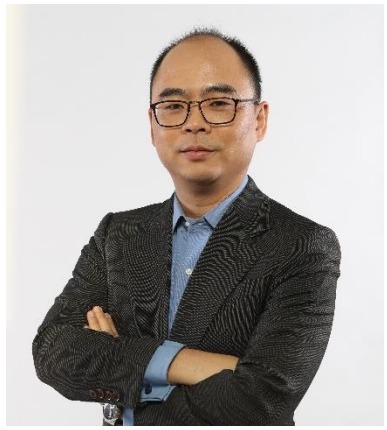
Long Quan



Mubarak Shah

Program Chairs

Kristin Dana



Gang Hua

Stefan Roth

Dimitris Samaras

Richa Singh

Finance Chairs

Octavia Camps
Northeastern Univ.

Brian Price
Adobe Research

Workshop Chairs

Mohit Gupta
Univ. of Wisc.

Vishal Patel
John Hopkins Univ.

Richard Souvenir
Temple University

Tutorials Chairs

Boqing Gong
Google Research

Julien Mairal
INRIA

Demo Exhibit Chairs

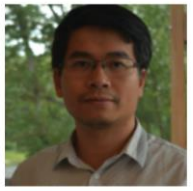
Humphrey Shi
University of Oregon

Publicity Chairs

Maria Vakalopoulou
CentraleSupélec, University Paris-Saclay

Kosta Derpanis
Ryerson University

Doctoral Consortium Chairs



Minh Hoai
Stony Brook Univ.

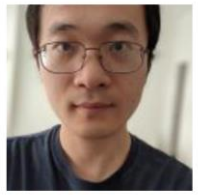
Adriana Kovashka
Univ. of Pittsburgh

Local Arrangements Chairs

Philippos Mordohai
Stevens Inst. of Tech.

Jinwei Ye
George Mason University

Technical Chair



Ke Ma

Maneet Singh

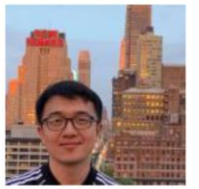
Social Activities Chairs

Giovanni M. Farinella
Univ. of Catania

Rana Hanocka
University of Chicago

Presentation Chairs

Brendan Morris
Univ. of Nevada, Las Vegas

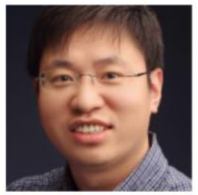


Zhixin Shu
Adobe Research

Website Chairs

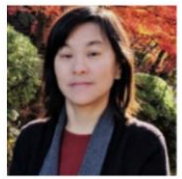
Anton Milan
Amazon

AJ Piergiovanni
Google Inc.



Shiliang Zhang
Peking University

Corporate Relations Chairs



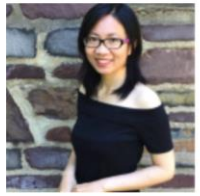
Mei Han
Ping An Labs

Shiguang Shan
Chinese Academy of

Bjorn Stenger
Rakuten Inst. of Tech.

Diversity, Equity, and Inclusion Chairs

Noah Snavely
Cornell University



Shuran Song
Columbia University

Thank you!

Ombuds

Senior PAMI-TC Ombud:

David Forsyth
University of Illinois Urbana-Champaign

Linda Shapiro
UW Reality Lab
University of Washington

CVPR 2022 Ombuds:

Kate Saenko
Boston University & MIT-IBM

Noah Snavely
Cornell Tech and Google Research

Any member of the community may complain to any ombud on matters related to legitimacy, fairness or inclusivity of CVPR or PAMI TC. Ombuds can be reached at cvpr2022_ombuds@googlegroups.com

Special thanks!

Eric Mortensen
Publication Specialist

Nicole Bumpus Finn
Event Producer

Thank you!

Thank you sponsors!

~$2M in Sponsorship & Exhibition

CVPR 2022 in Numbers

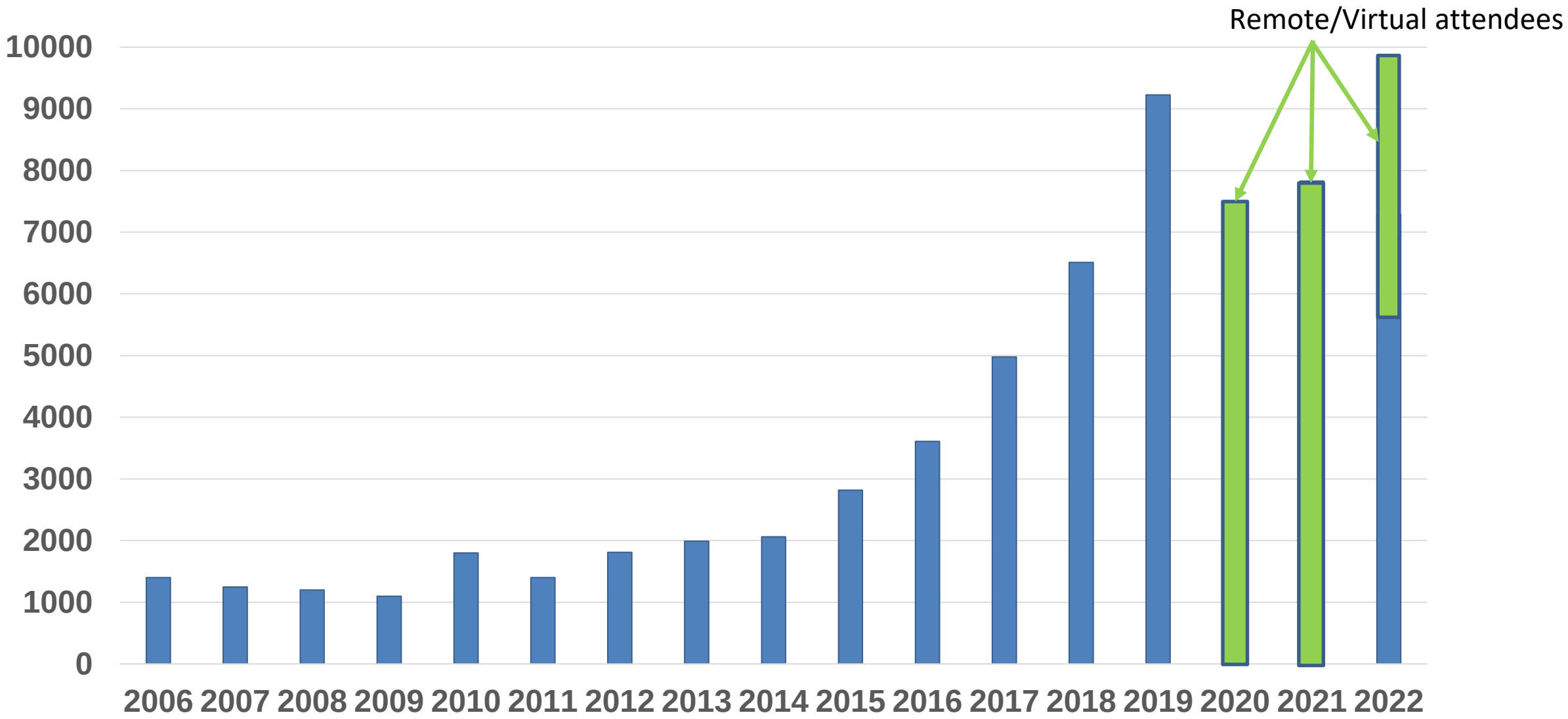
8,161 Paper submissions

2,064 Papers accepted

7,289 Registered attendees (05/31/2022)
5510 in person, 1779 virtual

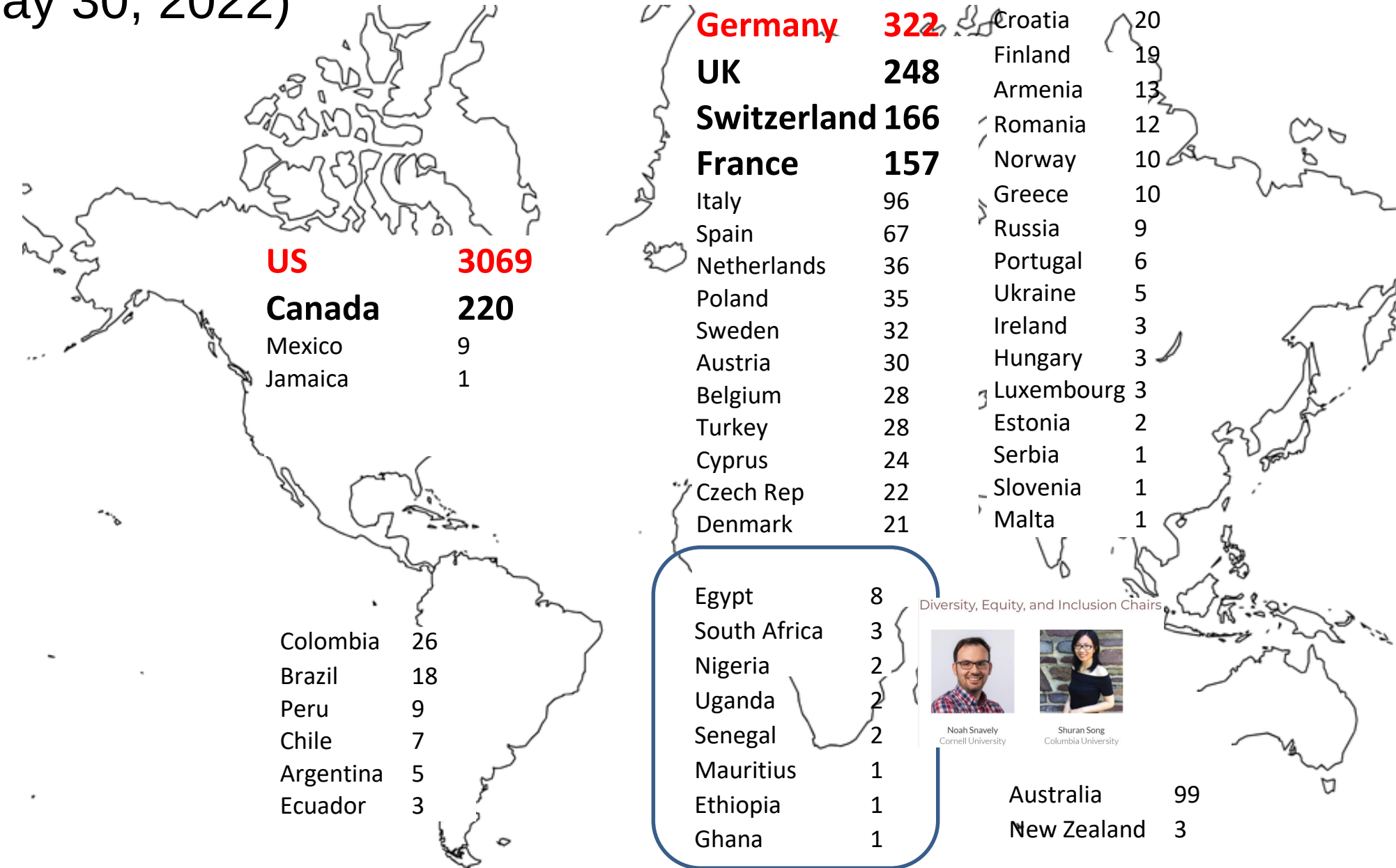
9,981 Registered attendees (06/20/2022)
5641 in person, 4340 virtual

CVPR Attendance Trend (as of June 20, 2022)



CVPR 2022: ~7,289 attendees from 74 countries/regions

(May 30, 2022)



US	**3069**
Canada	**220**
Mexico	9
Jamaica	1

Colombia	26
Brazil	18
Peru	9
Chile	7
Argentina	5
Ecuador	3

Germany	**322**
UK	**248**
Switzerland	**166**
France	**157**
Italy	96
Spain	67
Netherlands	36
Poland	35
Sweden	32
Austria	30
Belgium	28
Turkey	28
Cyprus	24
Czech Rep	22
Denmark	21

Egypt	8
South Africa	3
Nigeria	2
Uganda	2
Senegal	2
Mauritius	1
Ethiopia	1
Ghana	1

Croatia	20
Finland	19
Armenia	13
Romania	12
Norway	10
Greece	10
Russia	9
Portugal	6
Ukraine	5
Ireland	3
Hungary	3
Luxembourg	3
Estonia	2
Serbia	1
Slovenia	1
Malta	1

Diversity, Equity, and Inclusion Chairs

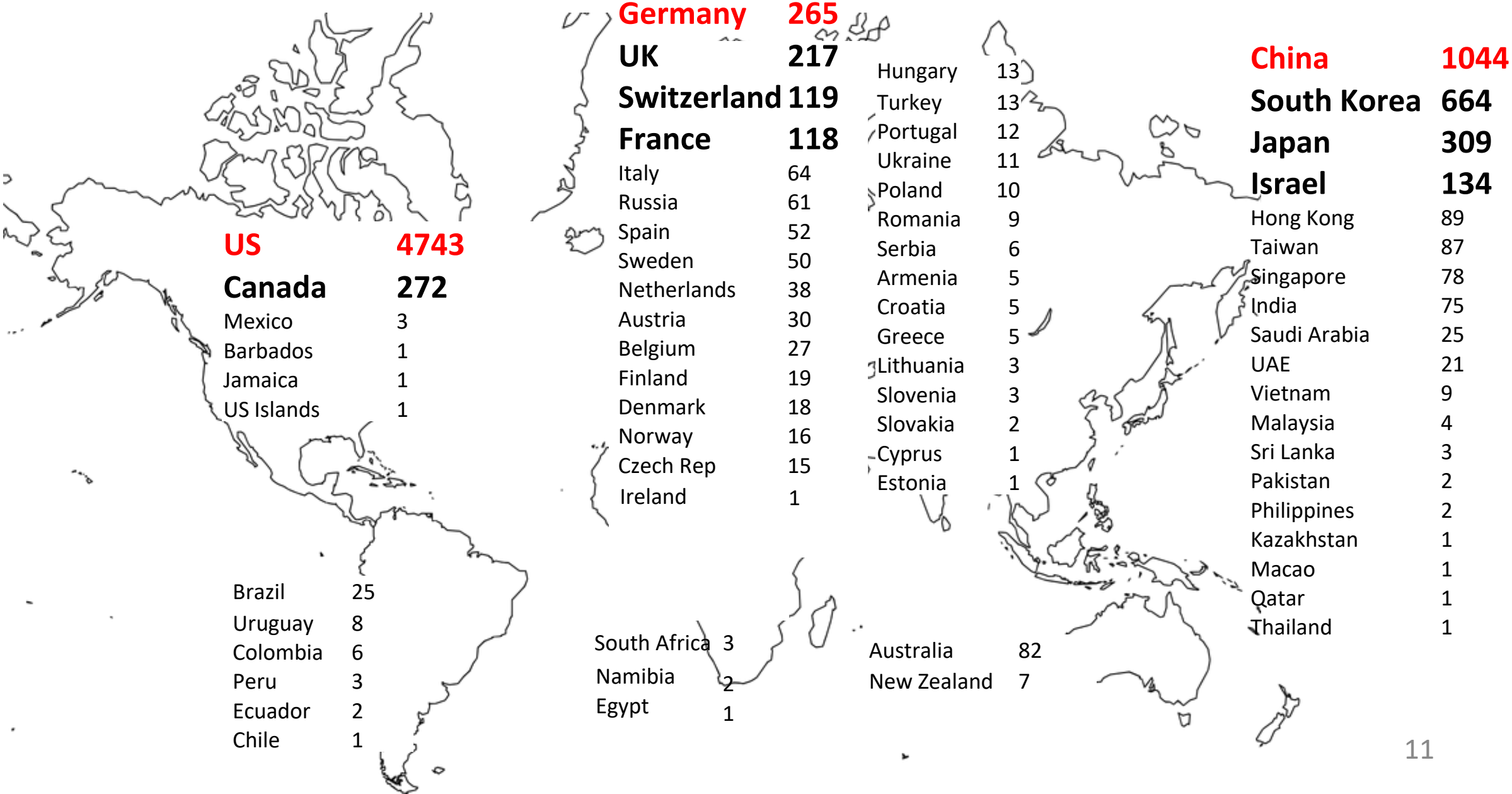
Noah Snavely
Cornell University

Shuran Song
Columbia University

Australia	99
New Zealand	3

China	**930**
South Korea	**460**
Japan	**237**
India	**125**
Singapore	**103**
Israel	90
Hong Kong	77
Taiwan	41
Saudi Arabia	34
Vietnam	15
UAE	12
Iran	7
Malaysia	7
Pakistan	7
Sri Lanka	3
Macao	3
Qatar	2
Thailand	2
Indonesia	2
Bangladesh	2
Nepal	2
Philippines	1

CVPR 2019: ~9,200 attendees from 68 countries/regions



US	**4743**
Canada	**272**
Mexico	3
Barbados	1
Jamaica	1
US Islands	1

Brazil	25
Uruguay	8
Colombia	6
Peru	3
Ecuador	2
Chile	1

Germany	**265**
UK	**217**
Switzerland	**119**
France	**118**
Italy	64
Russia	61
Spain	52
Sweden	50
Netherlands	38
Austria	30
Belgium	27
Finland	19
Denmark	18
Norway	16
Czech Rep	15
Ireland	1

South Africa	3
Namibia	2
Egypt	1

Hungary	13
Turkey	13
Portugal	12
Ukraine	11
Poland	10
Romania	9
Serbia	6
Armenia	5
Croatia	5
Greece	5
Lithuania	3
Slovenia	3
Slovakia	2
Cyprus	1
Estonia	1

Australia	82
New Zealand	7

China	**1044**
South Korea	**664**
Japan	**309**
Israel	**134**
Hong Kong	89
Taiwan	87
Singapore	78
India	75
Saudi Arabia	25
UAE	21
Vietnam	9
Malaysia	4
Sri Lanka	3
Pakistan	2
Philippines	2
Kazakhstan	1
Macao	1
Qatar	1
Thailand	1

Juneteenth at CVPR

First time overlap with CVPR as a federal holiday (June 20th, 2022)

On June 19, 1865, General Gordon Granger marched federal troops into Galveston, Texas, to take control of the state and free nearly 300,000 people who were still enslaved despite the Emancipation Proclamation becoming federal law two years earlier.

For the commemoration of the abolition of slavery in the US, New Orleans provides a perfect backdrop to educate on the history of slavery and the richness of black culture.

The significance of Juneteenth acknowledged during workshops.

List of local Juneteenth activities provided on the CVPR webpage.

Black New Orleans culture is part of CVPR in the catering, the entertainment of our event and on the back of our t-shirt, featuring the work of M. Sani, a local black artist.

Wednesday Night…

Wednesday night, following the Keynote, we will go to Mardi Gras World, 1380 Port of New Orleans.

Dinner, drinks, music, entertainment and games will be featured both indoors and outside.

Attendees MUST wear badges and only **Full Passport Registrations** are able to attend.

Please also wear a mask.

For a safe CVPR….

Please wear a mask.

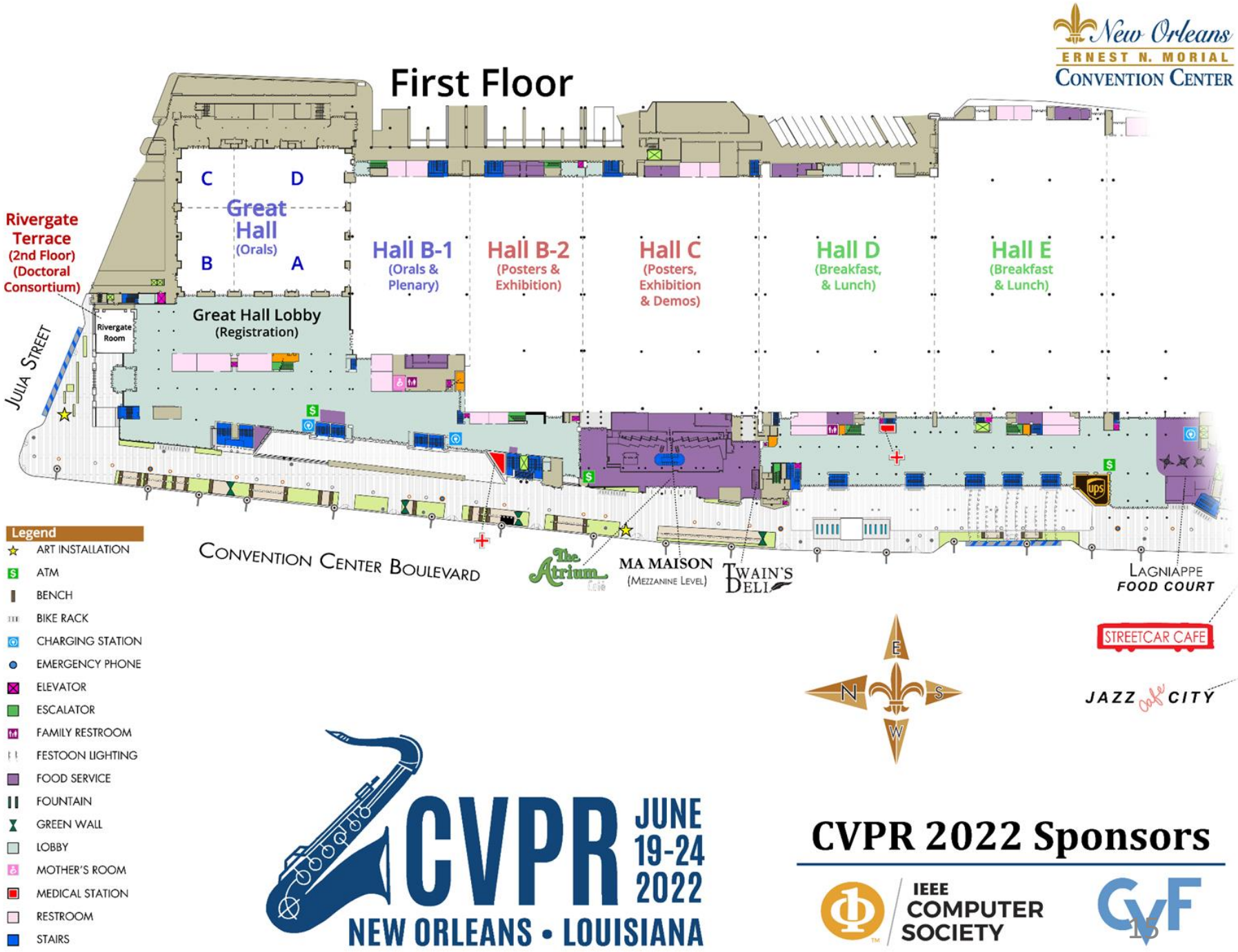
If you do not feel well, please do not come to the conference.

Free self-test kits are available next to the T-shirts stand.

Other Reminders

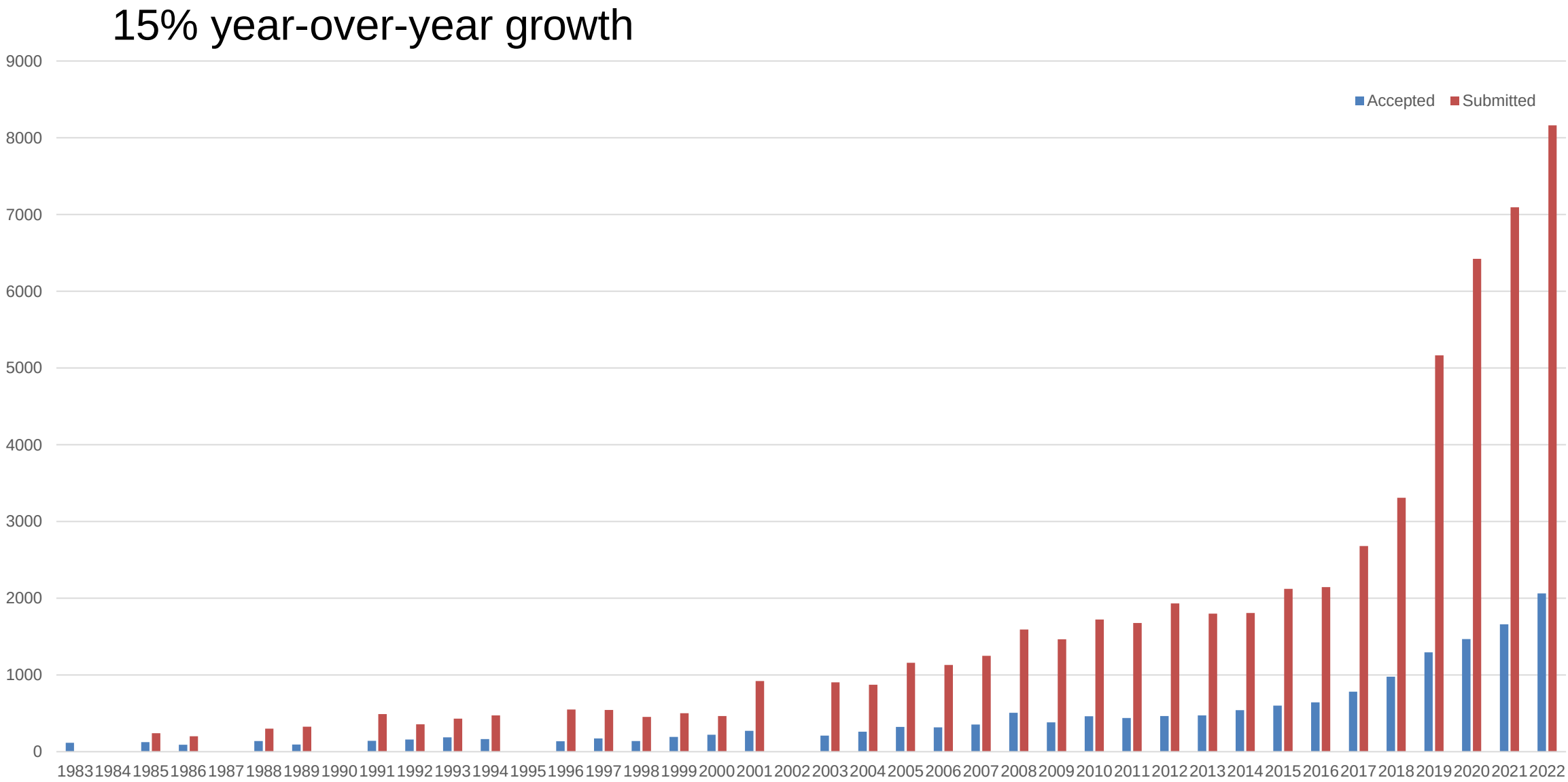
All catered functions (breakfast and lunch): grab-and-go items in Hall D&E

Coffee Breaks in Exhibit Hall



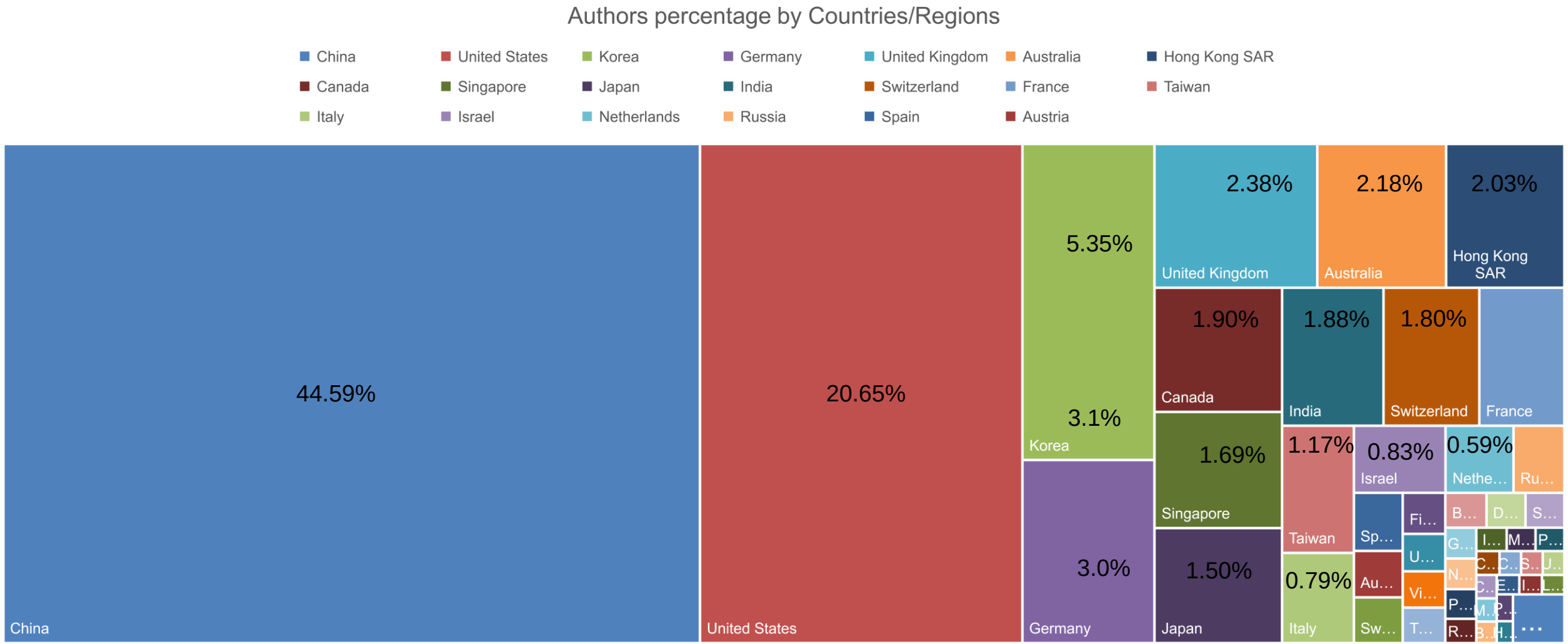
Papers and Main Program

CVPR Submitted and Accepted Papers

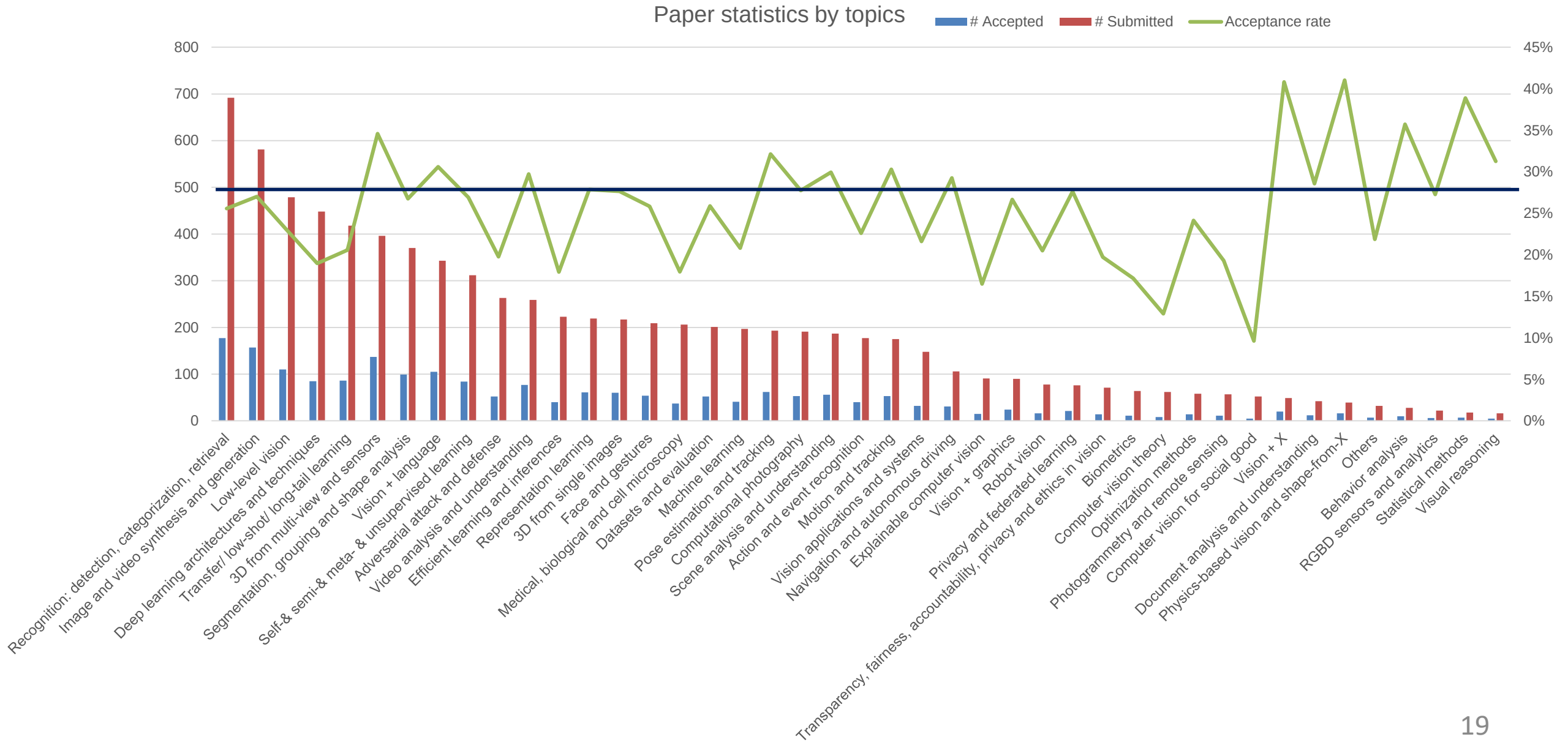


23,389 authors submitted 8,161 papers

(v.s. cvpr 2019: 14,104 authors submitted 5,160 papers)



2,064 papers in CVPR'22 (25.3% acceptance rate)



Hybrid setting: physical and virtual

Physical meeting:

344 short (5 mins) oral presentations and 2,064 posters

- Each oral paper is assigned to groups of 3, organized by topic, followed by 3 mins questions
- Each oral paper also has a poster presentation slot

Virtual meeting:

- All papers will have a 5 mins presentation video
- Each paper will have two assigned slots (10am & 10pm CT) for interaction with virtual attendees on Tuesday, June 28th, 2022

Special thanks to our presentation chairs and volunteers!

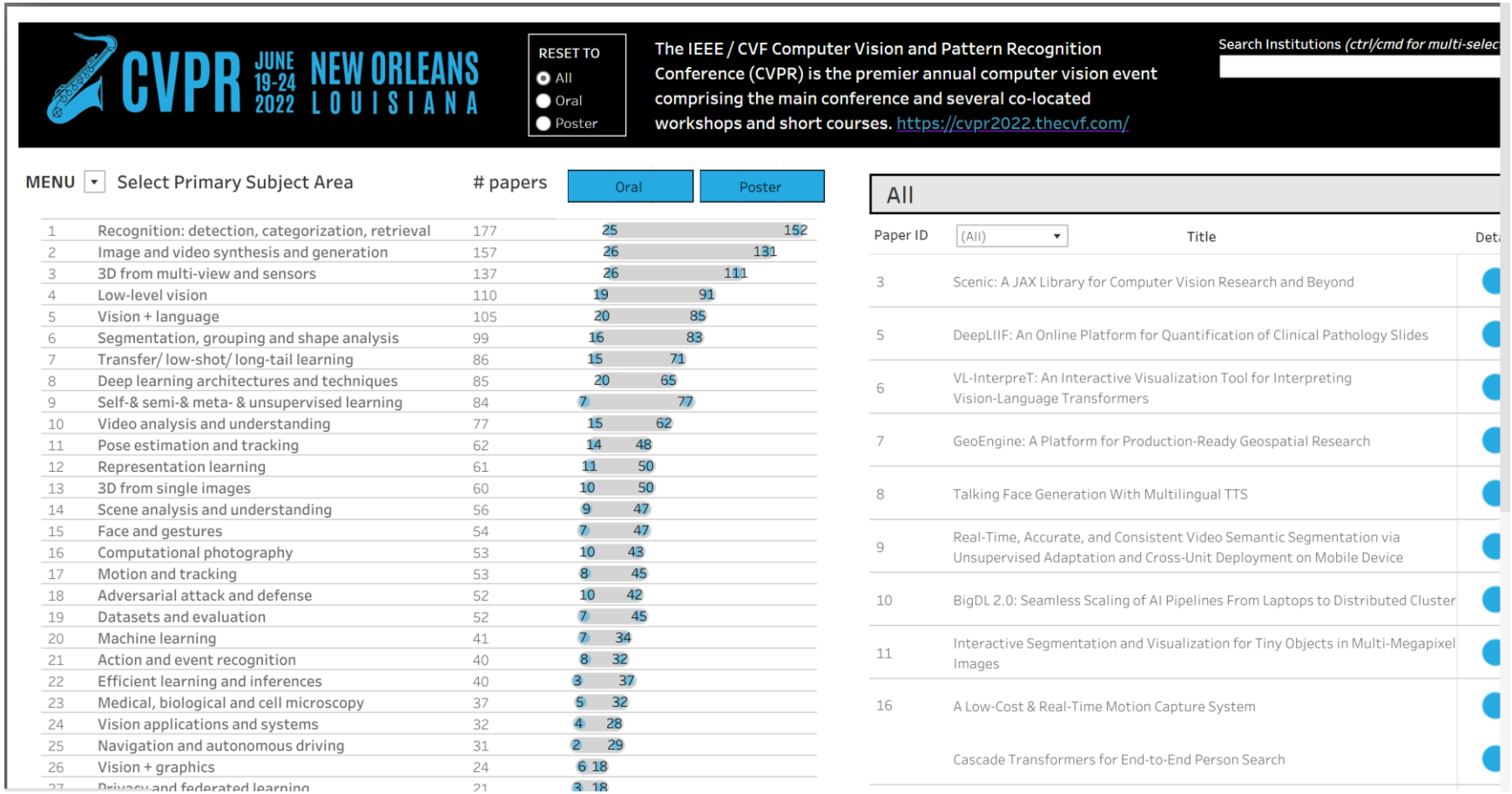
Brendan Morris
Univ. of Nevada,
Las Vegas

Zhixin Shu
Adobe Research

Thank you!

Convenient tool to find talks/posters of interest

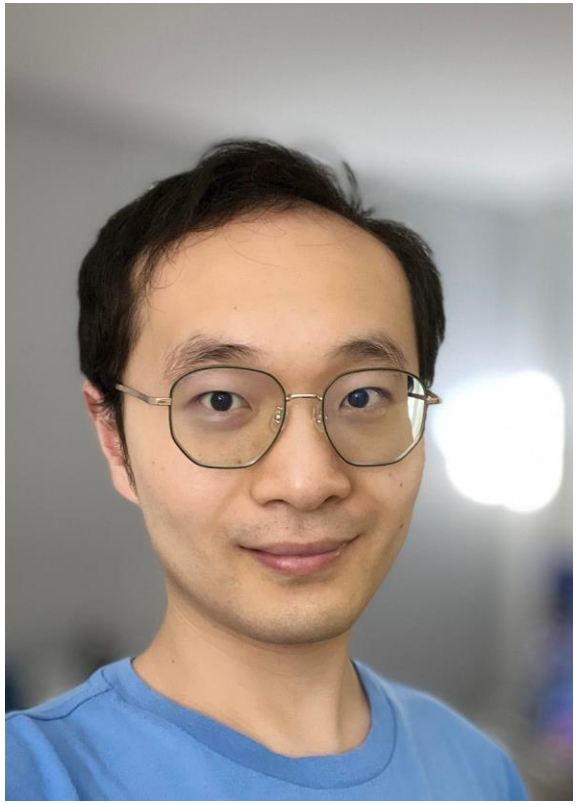
https://public.tableau.com/views/CVPR2022/Dashboard1?:showVizHome=no



Thanks to GeorgiaTech Communications Team

The Review Process

Special thanks to our two technical chairs!



Ke Ma, Ph.D.
Stony Brook Univ.

Maneet Singh, Ph.D.
IIIT-Delhi

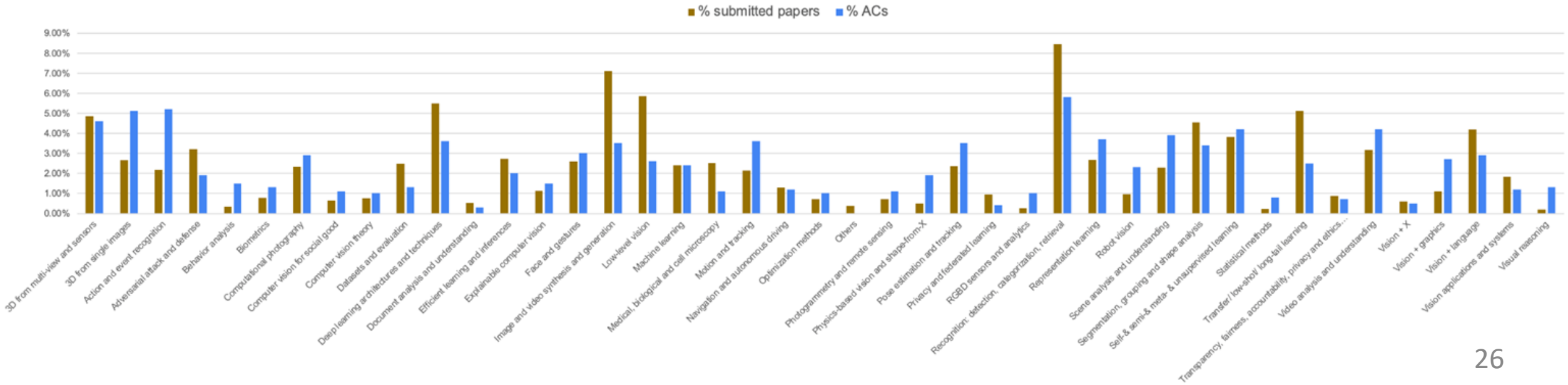
Thank you!

Review Process… in Numbers

300	area chairs (+ 4 emergency ACs)
6427	reviewers (incl. 1723 emergency reviewers)
25804	reviews
5884	rebuttals
17206	discussion posts
1.07M	emails sent through CMT

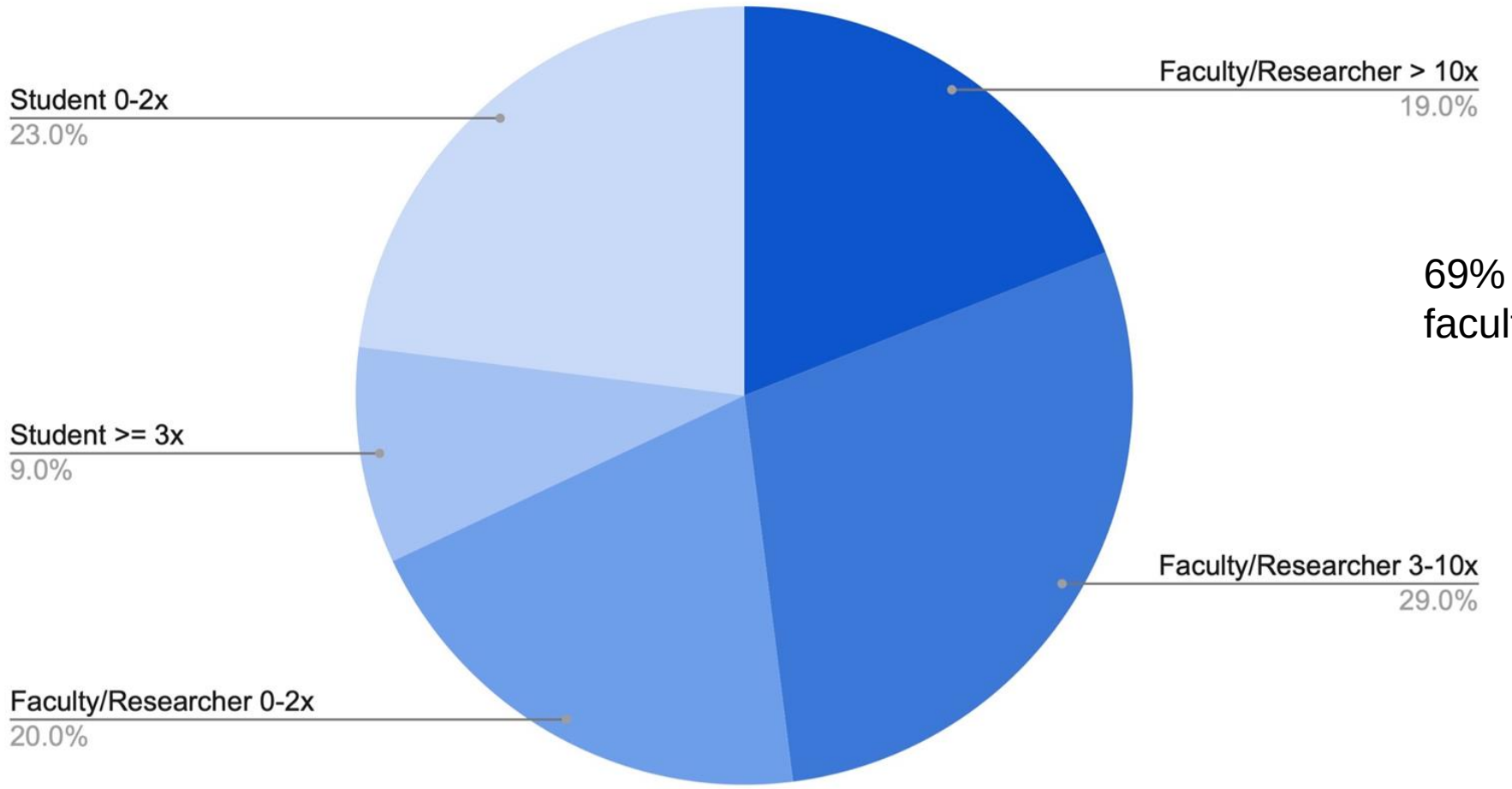
300 Area Chairs: Balance of topics, demographics

- From institutions in North America (128), Europe (83), Asia (80), Australia (7), South America (1)
- 55 women
- 101 first time ACs
- Good topic distribution (matches submissions)



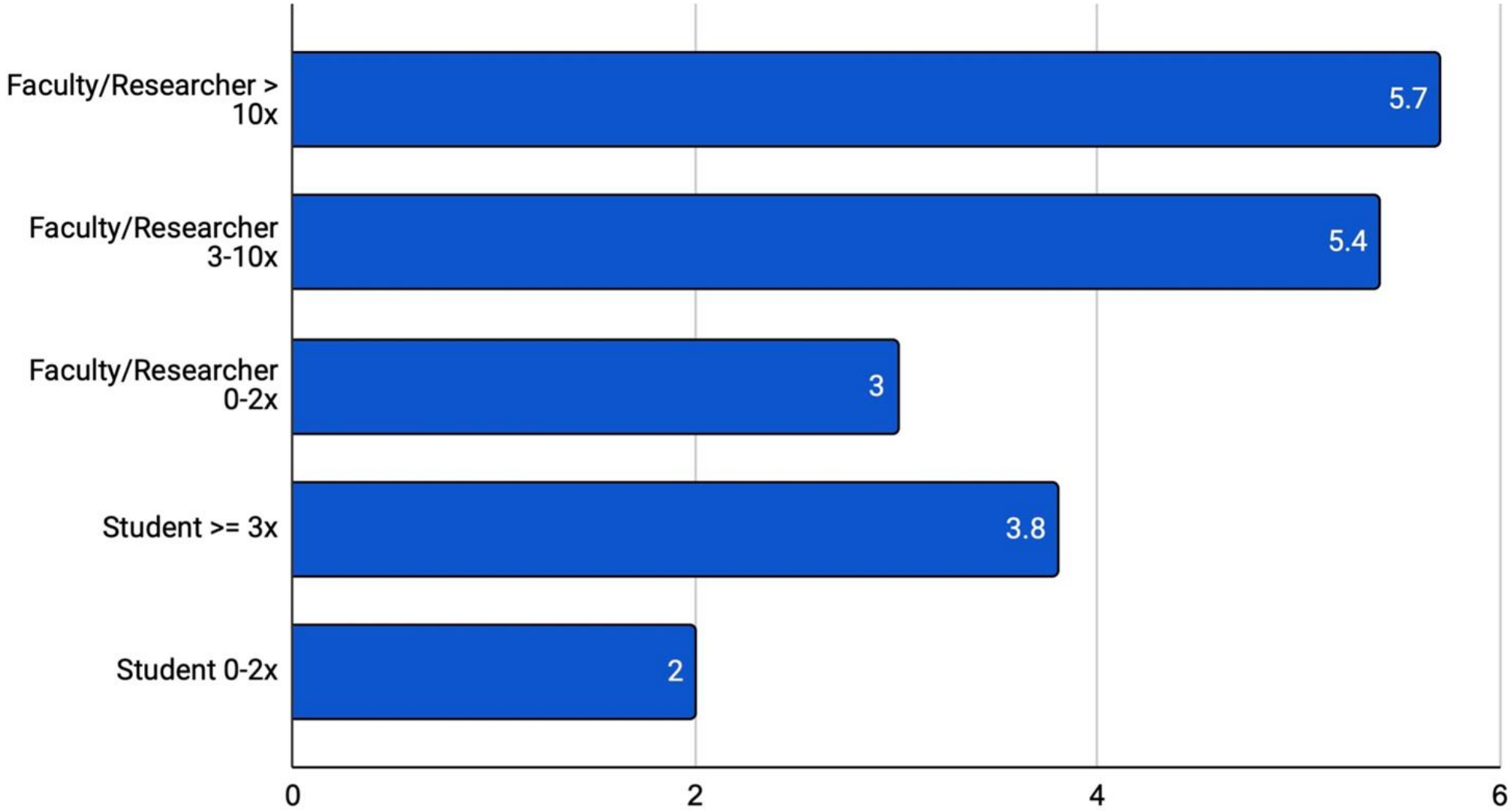
Reviewer Experience

31% student reviewers



69% faculty/researchers

Reviewer Load



Outstanding Reviewers

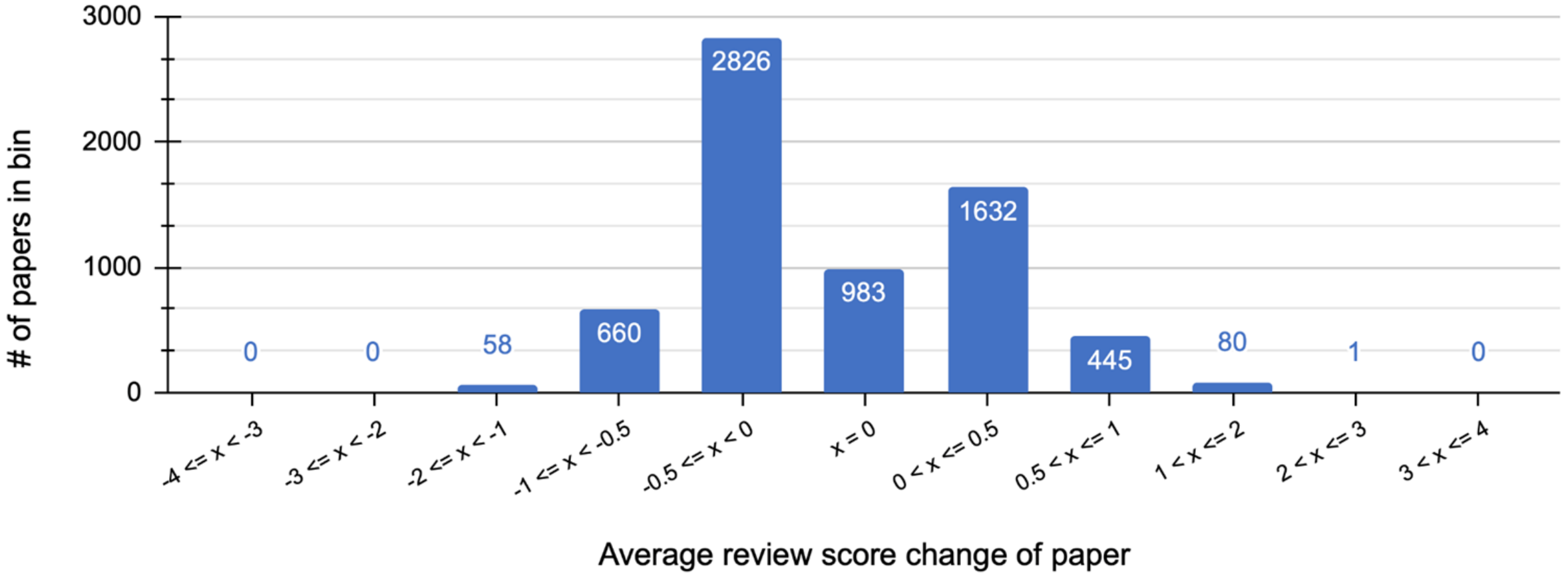
Vida Adeli
Vítor Albiero
Rareș Ambruș
Liang An
Bjoern Andres
Nikita Araslanov
Ali Athar
Haoran Bai
Francisco Barranco
Hector Basevi
Stefan Becker
Cigdem Beyan
Goutam Bhat
Bharat Bhatnagar
Andreas Blattmann
Amine Bourki
Guillem Brasó
Francois Bremond
Andrew Brown
Angela Castillo
Menglei Chai
David Chan
Stanley Chan
Prithvijit Chattopadhyay
Richard Chen
Julian Chibane
Sanghyuk Chun
Jihoon Chung
Javier Civera
Rodolfo Corona
Pasquale Coscia
Gabriela Csurka
Abir Das
Rajshekhar Das
Neel Dey
Helisa Dhamo
Jose Dolz
Simon Donné
Daniel Duckworth
Victor Escorcia
Carlos Esteves
Michael Firman
Anna Fruehstueck
Yonggan Fu
Guillermo Gallego
Difei Gao
Isha Garg
Ioannis Gkioulekas
Shubham Goel
Benoit Guillard
Kamal Gupta
Maciej Halber
Alexandros Haliassos
Adam Harrison
Chen He
Tong He
Jennifer Hobbs
Lukas Hoyer
Jiabo Huang
Jiahui Huang
Junhwa Hur
Sukjun Hwang
Gabriel Ilharco
Samyak Jain
Zhenyu Jiang
Tejan Karmali
Shyamgopal Karthik
Marc A. Kastner
Corentin Kervadec
Pirazh Khorramshahi
Dohyung Kim
Sungyeon Kim
Alexander Kirillov
Erich Kobler
A. Sophia Koepke
Nikos Kolotouros
Lingshun Kong
Simon Kornblith
Jie Lei
Hengduo Li
Senwei Liang
Yancong Lin
Yonghuai Liu
Ziyi Liu
Sylvain Lobry
Tobias Lorenz
Andres Mafla
Upal Mahbub
Massimiliano Mancini
Wei Mao
Riccardo Marin
Renaud Marlet
Richard Marriott
Carlo Masone
Simone Melzi
Moustafa Meshry
Juhong Min
Gaurav Mittal
Martin R. Oswald
Despoina Paschalidou
Sujoy Paul
Adithya Pediredla
Songyou Peng
Juan Perez
Ilya Petrov
Suzanne Petryk
Silvia Pintea
Benjamin Planche
Michaël Ramamonjisoa
Nikhila Ravi
Ambareesh Revanur
Elisa Ricci
Anna Rohrbach
Andres Romero
Jérôme Rony
Karsten Roth
Patrick Ruhkamp
István Sárándi
Patrick Schramowski
Katja Schwarz
Matan Sela
Evan Shelhamer
Sheng Shen
Wu Shi
Nina Shvetsova
Oriane Siméoni
Gaurang Sriramanan
Elisavet Stathopoulou
David Stutz
Matthew Tancik
Garvita Tiwari
Nergis Tomen
Shubham Tulsiani
Mathias Unberath
Sai Vemprala
Dor Verbin
Christoph Vogel
Chien-Yi Wang
Xiaosen Wang
Jia Wei
Davis Wertheimer
Kelvin Wong
Scott Workman
Bartlomiej Wronski
Tz-Ying Wu
Xin Xie
Haofei Xu
Ke Yan
Sangdoo Yun
Yi Zeng
Chuhan Zhang
Ning Zhang
Xiaoqi Zhao
Haitian Zheng
Huan Zheng
Yongpei Zhu
Zhiming Zou

See CVPR website

Will receive a $100 gift certificate

Thank you very much to all volunteer reviewers and ACs!

Effect of the Rebuttal



Review Process

- Each paper handled by triplet of ACs
  - ≥ 1 senior AC per triplet
  - ≥ 2 geographical regions per triplet
  - AC assignment based on automatic matching (TPMS, subject areas, constraints)
- ≥ 3 reviews for each paper
  - ≥ 2 reviewers suggested by primary AC, no bidding
  - automatic matching (suggestions, TPMS, subject areas, constraints)
  - primary AC moderated reviewer discussion
- virtual AC triplet meeting
  - detailed discussion on paper acceptance
  - ACs checked each other’s reports
  - various sanity checking mechanisms
  - oral/poster recommendations
- Training materials for ACs & reviewers

New Policies

New Policies

A number of new policies for paper submission were introduced this year:

- Policy for data contributions
- Guidelines for the proper attribution of data assets
- Policy for the use of personal data or involvement of human subjects
- Guidelines for discussing potential negative societal impact
- Guidelines for discussing limitations
- Social Media Policy (per CVPR 2021 passed motion)

New Policies

As part of a general trend in AI-related conferences, this is the first time CVPR addressed such questions in a more concerted fashion.

This year the intent was to increase awareness in the community and acquire experience for authors, reviewers, and organisers as well as to provide a basis for a discussion on how to handle such questions in future conferences.

We are proud that the vast majority of our community adapted to the new guidelines with ease, despite the additional steps required at conference submission.

We are grateful to our reviewers for thoughtfully checking the submissions for ethics or dataset concerns.

New Policies

Policy for data contributions:

If a paper claims a dataset release as one of its contributions, it is expected that the dataset will be made publicly available no later than the camera-ready deadline.

This year **1057** submissions claimed a dataset contribution, out of which **334** have been accepted.

The links to the contributed datasets can be found on the CVPR website.

Diversity Equity and Inclusion

DEI Committee

Co-Chairs

- Noah Snavely
- Shuran Song

Key Contributor

- Jinwei Ye

Committee Members

- Angjoo Kanazawa
- Bryan Russell
- Ning Zhang
- Qianqian Wang
- Ruojin Cai
- Samir Yitzhak Gadre
- Vicente Ordonez
- Wenqi Xian

New Outreach Efforts at CVPR 2022

CVPR Academy

Workshop for students (undergrad and graduate) new to computer vision, aimed to increase access to our field. Invited attendees include students from HBCUs and other minority-serving institutions.

K-12 Outreach

Partnership with STEM NOLA to bring 50 local high school students to CVPR. Please say hi to them on Tuesday at the expo and demo session!

Registration & Travel Awards

Awarded **55 passport registration awards** and **700 virtual registration awards**

Awarded over **200 travel grants** to recipients from 46 countries spanning 6 continents

Prioritized awards to students from communities underrepresented in computer vision & those who have never attended CVPR in-person

NEW in CVPR 2022: Student Socials

Student Social Event: Speed Mentoring

Our Student Activities Chairs, Rana and Giovanni have created a new format for student networking, brought from virtual to physical existence:

Students get to meet with Senior Faculty and Industry Leaders to discuss topics of interest to students! Students must register in advance to attend (by modifying their registration form) and attendance is capped.

Times:
June 21 5:00 – 6:30 PM
June 22 9:00 – 10:30 AM
June 23 5:00 – 6:30 PM

Workshops, Tutorials, Demos, Doctoral Consortium, Keynotes and Panel Discussions

Workshops

129 workshop proposals, **71** accepted workshops

Women in Computer Vision Workshop

Workshops Chairs

Mohit Gupta
Univ. of Wisc.

Vishal Patel
Johns Hopkins Univ.

Richard Suvenir
Temple University

Thank you!

Tutorials

47 tutorial proposals, **25** accepted tutorials

TUTORIAL LIST

Tutorials	Primary Contacts	full/half day	Type	Date	Time (AM/PM)
A post-Marrian computational overview of how biological (human) vision works	Li Zhaoping	full	Contributed	6/19	Full day
Affine Correspondences and their Applications in Practice	Daniel Barath	full	Contributed	6/19	Full day
Beyond Convolutional Neural Networks	Neil Houlsby	half	Contributed	6/20	AM
Building and Working in Environments for Embodied AI	Fanbo Xiang	half	Contributed	6/20	PM
Contactless Health Monitoring using Cameras and Wireless Sensors	Wenjin Wang	half	Contributed	6/20	Virtual Only
Deep AUC Maximization	Tianbao Yang	half	Contributed	6/20	AM
Deep Visual Similarity and Metric Learning	Timo Milbich, Jenny Seidenschwarz, Ismail Elezi	half	Contributed	6/19	PM
Denoising Diffusion-based Generative Modeling: Foundations and Applications	Karsten Kreis, Ruiqi Gao, Arash Vahdat	half	Contributed	6/19	AM
Evaluating Models Beyond the Textbook: Out-of-distribution and Without Labels	Liang Zheng, Ludwig Schmidt	half	Contributed	6/20	AM
Graph Machine Learning for Visual Computing	Guohao Li, Guocheng Qian, Jesus Zarzar	half	Contributed	6/20	PM
High-degree polynomial networks for image generation and recognition	Grigorios Chrysos	half	Contributed	6/20	PM
Human-centered AI for Computer Vision	Bolei Zhou	half	Contributed	6/20	PM

… … … … … …

Tutorial Chairs

Boqing Gong
Google

Julien Mairal
INRIA

Thank you!

Demos

27 demo proposals, **15** accepted demos

Real-Time, Accurate, and Consistent Video Semantic Segmentation via Unsuperv	Hyojin Park	Park
A Low-cost & Real-time Motion Capture System	Anargyros	Chatzitofis
GeoEngine: A Platform for Production-Ready Geospatial Research	Sagar	Verma
DeepLIIF: An Online Platform for Quantification of Clinical Pathology Slides	Ricardo	Dodds
Talking Face Generation with Multilingual TTS	Hyoung-Kyu [presenter 1] Sang Hoon [presenter 2]	Song [presenter 1] Woo [presenter 2]
Scenic: A JAX Library for Computer Vision Research and Beyond,	Mostafa	Dehghani
BigDL 2.0: Seamless Scaling of AI Pipelines from Laptops to Distributed Cluster	Shenegsheng	Huang
PyMiceTracking: An Open-Source Toolbox For Real-Time Behavioral Neuroscienc	Helton	Maia
Interactive Segmentation and Visualization for Tiny Objects in Multi-megapixel Im	Chengyuan	Xu
VL-InterpreT: An Interactive Visualization Tool for Interpreting Vision-Language Tra	Estelle Guez	Aflalo
Speech Driven Tongue Animation	Salvador	Medina
Effective conditioned and composed image retrieval combining CLIP-based feat	Marco	Bertini
DetectorDetective: Investigating the Effects of Adversarial Examples on Object D	Sivapriya	Vellaichamy
V-Doc : Visual questions answers with Documents	Yihao	Ding
VisCUIT: Visual Auditor for Bias in CNN Image Classifier	Seongmin	Lee
Clustering Plotted Data by Image Segmentation	Tarek	Naous
Papers and Code Aren't Enough: Why Demos are Critical to ML Research and Ho	Abubakar [presenter 1] Ahsen [presenter 2]	Abid [presenter 1] Khaliq [presenter 2]

… … … … … …

Demo Chairs

Humphrey Shi
Univ. of Oregon

Maria Vakalopoulou
Centrale Supélec,
University Paris-Saclay

Thank you!

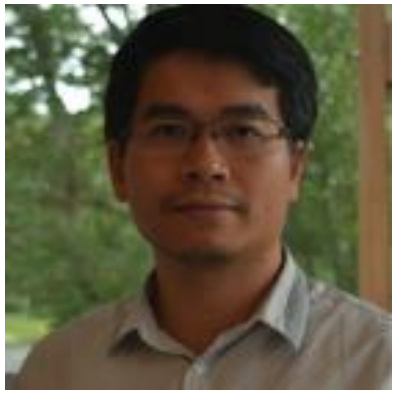
The Doctoral Consortium

28 student participants

Name	Affiliation
Jae Shin Yoon	University of Minnesota
Xingyi Zhou	University of Texas, Austin
N Dinesh Reddy	Carnegie Mellon University
Yapeng Tian	University of Rochester
Bowen Cheng	University of Illinois, Urbana-Champaign
Zhuang Liu	University of California, Berkeley
Tejas Gokhale	Arizona State University
Donghyun Kim	Boston University
Dripta S. Raychaudhuri	University of California, Riverside
Vishnu Lokhande	University of Wisconsin, Madison
Felipe Gutierrez Barragan	University of Wisconsin, Madison
Pan He	University of Florida
Liyue Shen	Stanford University
Yuqi Ding	Louisiana State University

Name	Affiliation
Vipin Pillai	University of Maryland, Baltimore County
Bin Fan	Northwestern Polytechnical University
Jindong Gu	University of Munich
Felix Petersen	University of Konstanz
Kshitij Dwivedi	Goethe University Frankfurt
Xinlong Wang	The University of Adelaide
Yida Wang	Technical University of Munich
Jiaojiao Zhao	University of Amsterdam
Dahun Kim	Korea Advanced Institute of Science and Technology
Joseph K J	Indian Institute of Technology Hyderabad
Valentin Gabeur	Universite Grenoble Alpes
Fabio Pizzati	Mines ParisTech
Ioana Croitoru	Institute of Mathematics of the Romanian Academy
Amanda Duarte	Universitat Politècnica de Catalunya

DC Chairs



Minh Hoai
Stony Brook Univ.

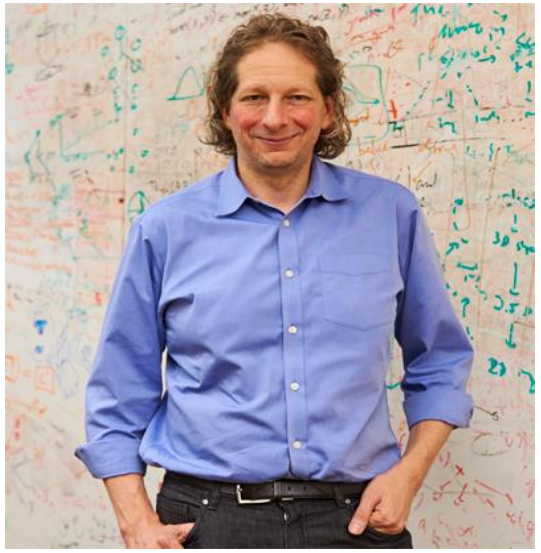
Adriana Kovashka
Univ. of Pittsburgh

Thank you!

Keynote Speakers

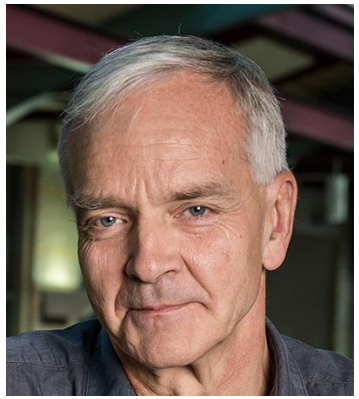
Kavita Bala
Cornell University
Title: *Understanding Visual Appearance from Micron to Global Scale*

Xuedong Huang
Azure AI
Title: *Toward Integrative AI with Computer Vision*



Josh Tennebaum
MIT
Title: *Learning to See the Human Way*

Panel: Embodied Computer Vision



Martial Hebert

Kristen Grauman

Nicholas Roy

Michael Ryoo

Program Chair Hosts

Kristin Dana

Dimitris Samaras

Jian Sun Memorial

In Memory of

Jian Sun, Oct. 30, 1976 – June 14, 2022

It is with great sadness that we announce that our beloved colleague, Dr. Jian Sun, Chief Scientist at Megvii Technology and Dean of the Megvii Research Center, passed away in the early hours of the morning on June 14, 2022, due to sudden illness.

PAMI-TC Awards

Longuet-Higgins Prize

Young Researcher Award

Thomas Huang Memorial Prize

PAMI-TC Awards Committee

- **Longuet-Higgins prize**:
  - R. Hartley (chair), A. Blake, A. Yuille, B. Kimia, S. Belongie, J. Luo
- **Young Researcher award**:
  - T. Tuytelaars (chair), G. Medioni, N. Paragios, S. Seitz, S. Lazebnik
- **Thomas Huang Memorial prize**:
  - R. Zabih (chair), A. Fitzgibbon, C. Schmid, D. Fleet, E. Grimson, H. Shi, K. M. Lee, M. J. Black, R. Chellappa, R. Hartley

Longuet-Higgins Prize

Are We Ready for Autonomous Driving? The KITTI Vision Benchmark Suite

Andreas Geiger, Philip Lenz, Raquel Urtasun

Young Researcher Award

Bharath Hariharan

Olga Russakovsky

Thomas Huang Memorial Prize

The Thomas Huang Memorial Prize was established to recognize and honor distinguished individuals with long-standing service, research, and mentoring within the computer vision community.

Prof. Thomas Shi-Tao Huang
黃煦濤 | 黃煦涛
(1936–2020)

Thomas Huang Memorial Prize

Fei-Fei Li

CVPR 2022 Awards

CVPR 2022 Best Paper Award Committee

Nikos Paragios (Chair)

Lourdes Agapito

Matthieu Aubry

Kosta Derpanis

Mohit Gupta

Zhouchen Lin

Yanxi Liu

Devi Parikh

Ira Kemelmacher-Shlizerman

Matthew Turk

Thank you for your service!

Best Student Paper Honorable Mention

Ref-NeRF: Structured View-Dependent Appearance for Neural Radiance Fields

Dor Verbin, Peter Hedman, Ben Mildenhall, Todd Zickler, Jonathan Barron, Pratul Srinivasan

Best Student Paper Award

EPro-PnP: Generalized End-to-End Probabilistic Perspective-n-Points for Monocular Object Pose Estimation

Hansheng Chen, Pichao Wang, Fan Wang, Wei Tian, Lu Xiong, Hao Li

Best Paper Honorable Mention

Dual-Shutter Optical Vibration Sensing

Mark Sheinin, Dorian Chan, Matthew O'Toole, Srinivasa Narasimhan

Best Paper Award

Learning to Solve Hard Minimal Problems

Petr Hruby, Timothy Duff, Anton Leykin, and Tomas Pajdla

33 Best Paper Finalists

Masked Autoencoders Are Scalable Vision Learners, Kaiming He, Xinlei Chen, Saining Xie, Yanghao Li, Piotr Dollar, Ross Girshick	Learning Multiple Dense Prediction Tasks from Partially Annotated Data, Wei-Hong Li, Xialei Liu, Hakan Bilen
FIFO: Learning Fog-invariant Features for Foggy Scene Segmentation, Sohyun Lee, Taeyoung Son, Suha Kwak	AnyFace: Free-style Text-to-Face Synthesis and Manipulation, Jianxin Sun, Qiyao Deng, Qi Li, Muyi Sun, Min Ren
SIGMA: Semantic-complete Graph Matching For Domain Adaptative Object Detection, Wuyang Li, Xinyu Liu, Yixuan YUAN	Pyramid Adversarial Training Improves ViT Performance, Charles Herrmann, Kyle Sargent, Lu Jiang, Dilip Krishnan, Huiwen Chang, Ramin Zabih, Ce Liu, Deqing Sun
GAN-Supervised Dense Visual Alignment, William Peebles, Jun-Yan Zhu, Richard Zhang, Antonio Torralba, Alexei A Efros, Eli Shechtman	Tracking People by Predicting 3D Appearance, Location and Pose, Jathushan Rajasegaran, Georgios Pavlakos, Angjoo Kanazawa, Jitendra Malik
Drop the GAN: In Defense of Patches Nearest Neighbors as Single Image Generative Models, Niv Granot, Ben Feinstein, Assaf Shocher, Shai Bagon, Michal Irani	Visual Vibration Tomography: Estimating Interior Material Properties from Monocular Video, Berthy T Feng, Katherine Bouman, Alexander C Ogren, Chiara Daraio
Accurate 3D Body Shape Regression using Metric and Semantic Attributes, Vasileios Choutas, Lea Müller, Chun-Hao Paul Huang, Siyu Tang, Dimitrios Tzionas, Michael J. Black	Ref-NeRF: Structured View-Dependent Appearance for Neural Radiance FieldsDor Verbin, Peter Hedman, Ben Mildenhall, Todd Zickler, Jonathan T Barron, Pratul Srinivasan
MAT: Mask-Aware Transformer for Large Hole Image Inpainting, Wenbo Li, Zhe Lin, zhou kun, Lu Qi, Yi Wang, Jiaya Jia	Light Field Neural Rendering, Mohammed Suhail, Leonid Sigal, Ameesh Makadia, Carlos Esteves
MAXIM: Multi-Axis MLP for Image Processing, Zhengzhong Tu, Hossein Talebi, Han Zhang, Feng Yang, Peyman Milanfar, Alan Bovik, Yinxiao Li	Vision Transformer with Deformable Attention, Zhuofan Xia , Xuran Pan, Shiji Song, Li Erran Li, Gao Huang
Point-Level Region Contrast for Object Detection Pre-Training, Yutong Bai, Xinlei Chen, Alexander Kirillov, Alan Yuille, Alexander C Berg	Learning to deblur using light field generated and real defocus images, Lingyan Ruan, Bin CHEN, Jizhou Li, Miu-Ling Lam
Learning Multi-View Aggregation In the Wild for Large-Scale 3D Semantic Segmentation, Damien Robert, Bruno Vallet, loic landrieu	Invariant Grounding for Video Question Answering, Yicong Li, Xiang Wang, Junbin Xiao, Wei Ji, Tat-Seng Chua
EPro-PnP: Generalized End-to-End Probabilistic Perspective-n-Points for Monocular Object Pose Estimation, Hansheng Chen, Pichao Wang, Fan Wang, Wei Tian, Lu Xiong, Hao Li	DIVeR: Real-time and Accurate Neural Radiance Fields with Deterministic Integration for Volume Rendering, Liwen Wu, Anand Bhattad, Jae Yong Lee, Yu-Xiong Wang, David Forsyth

33 Best Paper Finalists

Burst Image Restoration and Enhancement, Akshay Dudhane, Syed Waqas Zamir, Salman Khan, Fahad Shahbaz Khan, Ming-Hsuan Yang	Ego4D: Around the World in 3,000 Hours of Egocentric Video, Kristen Grauman; Andrew Westbury; Eugene Byrne; Zachary A Chavis; Antonino Furnari; Rohit Girdhar; Jackson A Hamburger; Hao Jiang; Miao Liu; Xingyu Liu; Miguel Martin; Tushar Nagarajan; Ilija Radosavovic; Santhosh Kumar Ramakrishnan; Fiona Ryan; Jayant Sharma; Michael Wray; Mengmeng Frost Xu; Eric Zhongcong XU; Chen Zhao; Siddhant Bansal; Dhruv Batra; Vincent Cartillier; Sean Crane; Tien Do; Morrie Doulaty; Akshay A Erapalli; Christoph Feichtenhofer; Adriano Fragomeni; Qichen Fu; Christian Fuegen; Abrham K Gebreselasie; Cristina I González; James Hillis; XUHUA HUANG; Yifei Huang; Wenqi Jia; Weslie Khoo; Jachym Kolar; Satwik Kottur; Anurag Kumar; Federico Landini; Chao Li; Yanghao Li; Zhenqiang Li; Karttikeya Mangalam; Durga Nagendra Raghava Kumar Modhugu; Jonathan Munro; Tullie Murrell; Takumi Nishiyasu; Will Price; Paola Ruiz; Merey Ramazanova; Leda Sari; Kiran Somasundaram; Audrey Southerland; Yusuke Sugano; Ruijie Tao; Minh P Vo; Yuchen Wang; Xindi Wu; Takuma Yagi; Ziwei Zhao; Yunyi Zhu; Pablo Arbelaez; David Crandall; Dima Damen; Giovanni Maria Farinella; Bernard Ghanem; Vamsi Krishna K Ithapu; C.V. Jawahar; Hanbyul Joo; Kris Kitani; Haizhou Li; Richard Newcombe; Aude Oliva; Hyun Soo Park; James Rehg; Yoichi Sato; Jianbo Shi; Mike Zheng Shou; Antonio Torralba; Lorenzo Torresani; Mingfei Yan; Jitendra Malik
Super-Fibonacci Spirals: Fast, Low-Discrepancy Sampling of SO, Marc Alexa	
Dual-Shutter Optical Vibration Sensing, Mark Sheinin, Dorian Y Chan, Srinivasa Narasimhan, Matthew O'Toole	
Grounded Language-Image Pre-training, Liunian Harold Li, Pengchuan Zhang, Haotian Zhang, Jianwei Yang, Chunyuan Li, Yiwu Zhong, Lijuan Wang, Lu Yuan, Lei Zhang, Jenq-Neng Hwang, Kai-Wei Chang, Jianfeng Gao	
Neural Emotion Director: Speech-preserving semantic control of facial expressions in “in-the-wild” videos, Foivos Paraperas Papantoniou, Panagiotis P Filntisis, Petros Maragos, Anastasios Roussos	
Learning to Solve Hard Minimal Problems, Petr Hruby, Timothy Duff, Anton Leykin, Tomas Pajdla	
OrphicX: A Causality-Inspired Latent Variable Model for Interpreting Graph Neural Networks, Wanyu LIN, Hao Lan, Hao Wang, Baochun Li	
Local Learning Matters: Rethinking Data Heterogeneity in Federated Learning, Matias Mendieta, Taojiannan Yang, Pu Wang, Minwoo Lee, Zhengming Ding, Chen Chen	
Robust fine-tuning of zero-shot models, Mitchell Wortsman, Gabriel Ilharco, Jong Wook Kim, Mike Li, Simon Kornblith, Rebecca Roelofs, Raphael Gontijo-Lopes, Hannaneh Hajishirzi, Ali Farhadi, Hongseok Namkoong, Ludwig Schmidt	Physical Inertial Poser : Physics-aware Real-time Human Motion Tracking from Sparse Inertial Sensors, Xinyu Yi , Yuxiao Zhou, Marc Habermann, Vladislav Golyanik, Soshi Shimada, Christian Theobalt, Feng Xu

Enjoy the Conference!
Enjoy New Orleans!

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