

FPSAC'23 A-Z

Arboretum: In your free time you may want to explore the nature on campus by walking or biking through the beautiful arboretum (<https://arboretum.ucdavis.edu/visit>).

Biking: Bikes are the perfect form of transportation in Davis. If you want to rent a bike, there are a few available at the ASUCD Bike Barn (open 10:00 a.m. - 5:00 p.m., M-F) for \$20 per day or \$60 per week. Davis is also home of the U.S. Bicycling Hall of Fame (located by the Davis Farmers Market), and the city logo is a big wheel bike. Davis has been continually ranked in the top five most bike friendly cities in the U.S..

Conference Photo: The official conference photo will be taken on Tuesday after the morning session. Please also post your own photos in the corresponding channel on the Discord server. We will publish some of the photos on the website after the conference is over.

Discord server: We've set up a Discord server for the conference in order to foster connectivity, collaboration, and community during your time in Davis. There are channels to self-organize ride-shares, ask questions of the organizers or locals, post photos, comment on particular presentations, and so more. You can join using this link <https://discord.gg/UHCSR3fhWj> or scan the QR codes in the lecture hall.

Emergency numbers: **Call 911 to report an emergency**, or for the Campus police call **530-752-1230**. More information can be found at <https://www.ucdavis.edu/campus-life/wellness-safety/emergency>

For “Free” Fantastic Food, anyone staying in the dorms can get three meals a day at Tercero Dining Commons. For everyone else, you can pay at the door. Breakfast is from 7:00 a.m. - 8:30 a.m., lunch is from 11:30 a.m. - 2:00 p.m., and dinner is from 5:00 p.m. - 7:00 p.m. Also, check out downtown Davis for a variety of food options and bars.

Gunrock the mustang was the undisputed mascot of UC Davis until 2022 when students voted to replace him with a cow.

Help, I need somebody!

See also **E** for emergency numbers. If you need help orienting yourself on campus, getting recommendations where to eat, or any other Davis questions, feel free to ask a local organizer in person or over the Discord.

Ice cream! This year, we are resuming a tradition that began at FPSAC 2018 by ending the conference with an ice cream social! Ice cream will be served on Friday after the closing remarks outside Sciences Lecture Hall.

Jelly fish on campus? That's right, there is a small display in the Sciences Lab Building (close to the lecture hall). On top of the very same building is a teaching greenhouse (open 9:00am - 4:00pm) with carnivorous plants. Also, check out the Botanical Conservatory further north (<https://greenhouse.ucdavis.edu/conservatory/index.html>).

Kiss the egghead: According to a tradition, kissing the Bookhead Egghead in front of Peter J. Shields Library will increase your chances of acing your finals. It can probably also help with proving all your favorite conjectures and/or boosting your immune system.

Lecture Hall: All talks will be held in the Science Lecture Hall. The poster sessions will be held in the Multipurpose Room on the second floor of the Student Community Center.

Meeting with collaborators: We suggest meeting at Giedt Hall, where we reserved rooms 1003, 1006, 1007 that are full of chalkboards! Additionally, there are picnic tables in the shade outside of the Mathematics building. Feel free to explore!

Napa valley is one of the world's great wine regions! It's visited by millions of tourists each year, and it's located only an hour from Davis. It's also the destination of excursions 1a and 1b on Wednesday!

Old Sacramento: Sacramento is the capital of California. Old Sacramento is the historic district, with Gold Rush-era buildings, and cobblestone streets. It is also the destination of excursion 2 on Wednesday!

Picnic in the Park: On Wednesday from 4:00 p.m. - 8:00 p.m., you can stop by Central park for live music, beer, and a farmer's market! The Davis Farmers market is also open Saturday 8:00 a.m. - 1:00 p.m. with even more vendors! It has been ranked in the top 10 farmers markets in the U.S. by USA Today.

Quad: A large green space in the center of campus near the oldest part of campus (c. 1914) lined with cork oak trees (*quercus suber*). These are large live oak trees with thick, spongy bark and shiny evergreen leaves. The cork is harvested for the first time after 25 years of growth and then again every 9-12 years thereafter. On the east and west side of the quad there are often hammocks under the shade of cork trees to catch a quick nap, read a book, or simply look at the leaves.

Robert Arneson was a professor at UC Davis who constructed The Egghead Series you will see around campus. The five eggheads began appearing in 1991. They include: "See no evil/hear no evil," "Eye on Mrak," "Bookhead," "Yin & Yang," and "Stargazer." Despite their slightly humorous appearance, they are meant to stand as warnings to academics. (<https://www.ucdavis.edu/campus-life/arts-culture/eggheads>) Can you find them all?

SFCA (Séries Formelles et Combinatoire Algébrique) is the official french name of FPSAC. The conference proceedings are published in the **SLC** (Séminaire Lotharingien de Combinatoire).

Tom, or more precisely **Downtown Tom**, was a turkey that lived in Davis. He was known for his aggressive behavior and also is the main character of a children's book by Davis resident Jay Schwerin (available in the Avid Reader Bookstore on 2nd street).

Ultimate (Frisbee) is the unofficial sport that is played in the free time of almost each FPSAC. Keep an eye on the Discord server for information about any official unofficial ultimate games and feel free to organize your own (but don't overheat and bring plenty of water). All are welcome, even if you have never played before.

Veterinary medicine and **Viticulture & Enology** are two of the programs that UC Davis is most well known for.

Water and Weather: Stay hydrated – carry water. There are drinking fountains and refill water stations all over Davis campus. Tap water in Davis is safe to drink.

xi (ξ) is the 14th letter of the greek alphabet. It was used 31 times in a total of four extended abstracts that were accepted for FPSAC'23. If you divide a capital Xi (Ξ) by its complex conjugate, you are guaranteed to confuse everybody in the audience.

You Only Live Once, so use your chance to explore the nicest city in Yolo County! The 42A and 42B Yolo buses are the most affordable means of transportation to get to and from Sacramento (and the Sacramento airport). See <https://yolobus.com/>.

Zoo in Davis? Unfortunately, there is no zoo in Davis, but there are many animals to visit on the campus. Have you seen the cows, the horses, the sheep, the squirrels or the turkeys?

Other exciting animals (dead and alive) can be visited at the Bohart Museum of Entomology which is also on campus (open Tuesday from 2:00-5:00 p.m., <https://bohart.ucdavis.edu/>). See also **J**.

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download an
online version





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	Monday, July 17	Tuesday, July 18	Wednesday, July 19	Thursday, July 20	Friday, July 21
0800am	Registration				
0830am	Welcome and opening remarks				
0900am	Plenary talk Blasiak: Catalonia	Cancelled: Plenary talk Schroll	Plenary talk Chan: Graph complexes and moduli spaces in tropical geometry	Plenary talk Omar: Using slice-rank and partition-rank	Plenary talk Fusy: Enumeration of rectangulations and corner polyhedra
0930am					
1000am	<i>Chair (morning session): Josephine Yu</i>	<i>Chair (morning session): Ricky Liu</i>	<i>Chair (morning session): Sam Hopkins</i>	<i>Chair (morning session): Patricia Hersh</i>	<i>Chair (morning session): Christian Krattenthaler</i>
1030am	Seelinger: A Catalan formula for Macdonald polynomials	Gaetz: Bruhat interval polytopes, 1-skeleton lattices, and smooth torus orbit closures	Li: Equivariant log-concavity of independence sequences of claw-free graphs	Garzon Mora: Fine Polyhedral Adjunction Theory	Fang: Bijections between planar maps and planar linear normal λ -terms with connectivity condition
1100am	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
1130am	Oh: Towards Butler's conjecture	Panova: Positivity of the symmetric group characters is as hard as the polynomial time hierarchy	Liao: Stembridge codes and Chow rings	Burcroff: Compact Hyperbolic Coxeter d -Polytopes with $d + 4$ Facets and Related Dimension Bounds	Kanade: On the A_2 Andrews-Schilling-Warnaar identities
noon	Gonzalez: Semistandard Parking Functions and a Finite Shuffle Theorem	Doufropoulos: Recursions and Proofs in Cataland	Vecchi: Hilbert—Poincare series of matroid Chow rings and intersection cohomology	Ramos: Robertson's Conjecture in Algebraic Topology	Selkirk: From Kreweras to Gessel: A walk through patterns in the quarter plane.
1230pm	Lunch break	Conference photo: Conference photo	Lunch break	Announcement of FPSAC24	Lunch break
0100pm		Lunch break		Lunch break	
0130pm			excursion/free afternoon		
0200pm	Pfannerer: Software demo				Hackl: Software demo
0230pm	Plenary talk Weigandt: Derivatives and Schubert Calculus	Plenary talk Zinn-Justin: Schubert puzzles as exactly solvable models		Plenary talk Inoue: Cluster realization of Weyl group and its applications to representation theory	Plenary talk Adiprasito: Parseval identities, volume polynomials and anisotropy
0300pm	<i>Chair (afternoon session): Zach Hamaker</i>	<i>Chair (afternoon session): Hélène Barcelo</i>		<i>Chair (afternoon session): Mike Zabrocki</i>	<i>Chair (afternoon session): Ole Warnaar</i>
0330pm	Lewis: Combinatorial formulas for shifted dual stable Grothendieck polynomials	Eur: Tautological classes of matroids		Even-Zohar: The BCFW Tiling of the Amplituhedron	Ben Dali: Jack characters as generating series of bipartite maps and proof of Lassalle's conjecture
0400pm	Coffee break	Coffee break		Coffee break	Coffee break
0430pm	Hwang: Chromatic quasisymmetric functions and noncommutative P -symmetric functions	Penaguiao: The maximum likelihood degree of a matroid		Defant: Triangular-Grid Billiards and Plabic Graphs	Mandelshtam: The multispecies zero range process and modified Macdonald polynomials
0500pm	Udell: Interpolating between ordinary and bumpless pipe dreams	Ehrenborg: Pizza and 2-structures		Notarantonio: Effective algebraicity for solutions of systems of functional equations with one catalytic variable	Rhoades: Divisors, orbit harmonics, and DT invariants
0530pm	Benkart tribute	Poster session I		Poster session II	closing remarks
0600pm					traditional farewell ice cream social
0630pm				Banquet	
0700pm					
0730pm					
0800pm					

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