NSF Perception, Action, and Cognition Program FY2022 Newsletter

First and foremost, we would like to extend our heartfelt thanks to the many members of our research communities who contributed time and expertise to the merit review process in the last year. Maintaining a rigorous review process requires a large number of ad hoc reviewers. And this year, reviewers donated their time and expertise despite the added stress and responsibilities brought on by COVID-19 (on-line teaching and research, Zoom burnout, back to class, reviving labs, etc.). The dedication of the PAC community takes our breath away.

PAC has a new Program Director! Mike Hout has finished his NSF rotation (that went FAST) and is back at New Mexico State University. The new PD is Simon Fischer-Baum, from Rice University. And no, I'm not going anywhere soon….

If you would like receive PAC updates (~3/year), subscribe to the PAC Mailing List. And check the **new and improved PAC website** for updates to our program description as well as links to recent awards and other opportunities for funding at NSF that may be of interest to our broad research community.

Register for an ORCID ID if you would like NSF to find you easily!

Selected opportunities for the PAC Community

1. **Science of Learning and Augmented Intelligence**
2. **Mind, Machine and Motor Nexus (M3X)**
3. **Human Networks and Data Science: NOTE-** The Program Director – Trish van Zandt, from the Ohio State University – is from our community.
4. The **Dear Colleague Letter, Stimulating Integrative Research in Computational Cognition (CompCog)**
5. **Integrative Strategies for Understanding Neural and Cognitive Systems (NCS)**
6. **The Future of Work at the Human-Technology Frontier.**
7. **Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science (SCH).** Look at theme 6 under *II. Program Description* in the solicitation.
8. Funding for international collaborations (**UK** and **Israel**).
9. **Graduate Research Fellowship Program**
10. **Build and Broaden 3.0**: Enhancing Social, Behavioral and Economic Science Research and Capacity at Minority-Serving Institutions (B2 3.0)
11. **Visit the SBE funding opportunities website** for more funding opportunities within the Social, Behavioral, and Economic Sciences directorate. Check back periodically because new opportunities will be posted as they are released.

Before submitting any proposal to NSF:

1. Check the specific program webpage for the description and the link to the solicitation (if there is one). There are often changes to the requirements and description. For example, NSF is transitioning to **Research.gov**. Get familiar with it *before* you need to submit.
2. Check the **Proposal and Award Policies and Procedures Guide**, which updates often.
3. It's always a good idea to email a one-page description of your proposed work to **all potentially relevant Program Officers** in one email, to determine the best-fit program for your work. Using the Project Summary as a model is helpful.

Fiscal Year 2022 PAC Awards

We are excited to announce the new group of PAC awards from fiscal year 2022. If you would like to know more about any of the awards, use the NSF award search and enter the 7-digit Award Number in the search field. Click on the title to see the public abstract.

Proposal number	Award Title	PI
2141860	CAREER: Reward learning, selection history, and attentional control	Grubb, Michael A.
2142269	A unified theory for perception of physical and social dynamics	Lu, Hongjing
2145308	CAREER: Recognition-Memory Modeling: Testing Foundations and Extending Boundaries	Kellen, David
2146617	SBE-UKRI: "Looked but failed to see" errors in human vision.	Wolfe, Jeremy M.
2146798	NSF-BSF: Bridging encoding and retrieval perspectives on sentence processing errors: Comparing Hebrew and English	Dillon, Brian
2146885	Determinants of perceptual learning for speech perception	Theodore, Rachel M.
2146888	Online Decision-Making and Control During Human-Human Interactions	Cashaback, Joshua
2146983	Collaborative Research: Using Causal Explanations and Computation to Understand Misplaced Beliefs	Marsh, Jessecae K.
2146984	Collaborative Research: Using Causal Explanations and Computation to Understand Misplaced Beliefs	Kleinberg, Samantha
2146988	Continuous strength, population-based representations in visual working memory	Brady, Timothy
2146993	Modeling the cognitive challenge of accented speech	Van Engen, Kristin
2147017	Episodic memory retrieval as attention turned inward	Logan, Gordon

Proposal number	Award Title	PI
2216127	CompCog: HNDS-R: Self-Supervision of Visual Learning From Spatiotemporal Context	Wyble, Bradley P.
2216763	RUI: Edge Perception in Touch: Theories, Exploratory Procedures, and Multimodality	Ziat, Mounia
2217415	Transfer of statistical learning from perception to production	Nozari, Nazbanou
2217478	Perspective-Taking in Conversation	Brown-Schmidt, Sarah
2217889	Collaborative Research: Decision Processes in Human Navigation	McNamara, Timothy P.
2217890	Collaborative Research: Decision Processes in Human Navigation	Kelly, Jonathan
2218220	Visual Control of Steering, Obstacle Avoidance, and Path Following	Fajen, Brett R.
2218384	RUI: Causes and consequences of early quitting in visual search: Investigating the role of distractors	Moher, Jeff
2218406	Understanding habit formation in complex tasks	Haith, Adrian M.
2218427	Identifying novel memory traces that improve action precision	Smith, Maurice

PAC conference support:

Proposal number	Award Title	PI
2138003	Memory, Space, and Time Workshop	Aronowitz, Sara
2232267	22nd International Symposium on Aviation Psychology	Rantanen, Esa M.

PAC contributions to awards made by other programs:

Developmental Sciences

Proposal number	Award Title	PI
2214017	A new approach to computational model evaluation: Benchmarking against infant experimental data	Sundara, Megha

Biomechanics & Mechanobiology

Proposal number	Award Title	PI
2209038	Students, Diversity Events, and a Systems Workshop at the 2022 Summer Biomechanics, Bioengineering, and Biotransport Conference (SB3C); Cambridge, Maryland; 20-23 June 2022	Morss Clyne, Alisa

Disability & Rehabilitation Engineering

Proposal number	Award Title	PI
2218913	Closed-Loop Control and Operant Conditioning of Loading Response during Locomotion After Stroke	Duenas, Victor H.

Collaborative Research in Computational Neuroscience

Proposal number	Award Title	PI
2207770	CRCNS US-Spain Research Proposal: Collaborative Research: Tracking and modeling the neurobiology of multilingual speech recognition	Magnuson, James S.

PAC also funded approximately 15 stipends for Research Experiences for Undergraduates

We hope you find this summary useful. Send us your best work and please continue to be generous and accommodating reviewers.

IMPORTANT NOTICE: NSF mail is still going to many people's spam folder. Please set an exception for NSF.GOV in your email system and check that your correct email address is in the NSF database (with no auto-forward involved). Of course, if NSF emails are being filtered as spam, you won't know it because you won't receive this newsletter. Sigh.

Thank you again for all your work of behalf of the field. As always, feel free to be in touch with your comments, questions, or concerns.

Betty Tuller and Simon Fischer-Baum
Program Directors
Perception, Action, and Cognition