





Do ASF fellowships work?



AUTISM SCIENCE FOUNDATION

What's the point for ASF?

- Training fellowships still #1 investment
- ASF only private nonprofit to be offering pre and postdoctoral fellowships in 2016 on
- Primary goal is to increase the pool of autism researchers and enhance quality of research
- Secondary goal is to provide research discoveries for the community
- Tracking a person vs. tracking a discovery



What are outcomes?

NIH progress reports/HRA members – let's share!

Examples:

- Specific grant accomplishments
 - Training opportunities
 - Publications and presentations, submissions
- Products
 - FDA approvals, licenses, discoveries
 - Websites, patents
- Impact
 - Other funding, applications
- Investigators: Where are they now?
- *Mostly* based on self-report/reports from grantees



Self – report data on outcomes Benefits and Pitfalls

- Grantees or universities provide data
- Automated
- Rich dataset not available elsewhere, such as community engagement
- Get whatever you ask for

- Biased
- Dependent on trainee response
- Missing outcomes
 4 years out
- Only captures on one group



Example of self-report

Ummm, I didn't think a NARSAD

grant counted

7. Was this grant useful in obtaining additional funding from either public or private sources? List any funding so far that was obtained as a result of this grant. This also may include grants obtained by your mentor as a result of your research.

We are currently seeking to leverage these findings for additional rare disease research funding opportunities.



Thank you Brain & Behavior Research Foundation for research and goals of these amazing scientists.





Tools and examples used by others

NIH National Institutes of H	Health CareerTrac										
Trainees Help											
Welcome to CareerTrac											
Sorry, we were not able to find a user with that username and password.											
	Please sign in with your CareerTrac username and password										
Us	ername										
Pa	ssword										
S	Ingenin Forgot Your Password? Need a CareerTrac User ID?										



HELPING WAYNE STATE UNIVERSITY ACHIEVE IMPROVED STUDENT TRACKING AND SATISFACTION

Wayne State University, facing declining revenue from the state, turned to Huron for help in improving its student retention rate, and enhancing the overall enrollment and draw of out-of-state students. Huron conducted a broad review of the university's business operations, with a special focus on the admissions, financial aid, registrar, and bursar operations. Huron helped Wayne State install a system that allowed the university's staff to report, track, and evaluate the success and satisfaction of its students.



Current ways track grantee outcomes:

- Traditional: survey grantees
- Newer: engage consultant or Uber Research
- Radical: use an experimental design
- Radical + on the cheap: hire summer interns



ASF goals

- 1. To understand if ASF funding encouraged fellows to stay in autism research
- 2. To examine whether or not ASF funding led to greater productivity of future autism or science careers
- 3. This required a more experimental design with a comparison group that we could find data on
 - Applicants not funded
 - Needed passive approach
 - In the future gHRAsp / Uber as a source of "controls"?



More on this "not funded" group

good score - not enough money

- required several minor or minor revisions before scoring
- bad score all the money in the world would't have helped





Information collected

<u>WHAT</u>

<u>WHY</u>

- Current position
- Current employer
- Publications
- Collaborations
- Citation index
- Grants received
- Altmetric

(autism/no autism) (science/no science) productivity networking impact of science future in academia alt-impact



How we collected it





Linked in







US National Library of Medicine National Institutes of Health







Who collected it



Alycia Halladay



Esther Jou



Priyanka Shah



Sonia Agarwal



Hannah Grossman



Seowon Kim



The spreadsheets

Grant Year	First Name	Last Name	Mentor Name	Current Contact Information	Type	Application Title	stitution (Applican	Current Position	Sc
2010	Sarita	Austin	Paul	saustin@gc.cuny.edu	pre	Enhancing Understanding and Use of Conversational Rul	Yale	PureFlow Media Director, Writer, Producer	nc
2010	Karen	Burner	Webb	kburner@u.washington.edu	pre	Observational and Electrophysiological Assessments of T	UW	Seattle Children's Hospital Clinical Psychologist	ye
2010	Rhonda	Charles	Buxbaum	rhonda.charles@mssm.edu	pre	A Preclinical Model for Determining the Role of AVPR1A	MSSM	Medical Writer at Chameleon Communications International	a no
2010	Sarah	Hannigen Laughlin	Strauss	shannige@wpahs.org	pre	Defining High and Low Risk Expression of Emotion in Infa	Pitt	UNC CIDD Intern/Allegheny General Hospital Postdoc Fell	(ye
2010	Matt	Maenner	Durkin	maenner@gmail.com	pre	Phenotypic Heterogeneity and Early Identification of ASD	U Wisconsin	Epidemic Intelligence Service Officer at the Centers for Dis	ye
2010	Michael	Sidorov	Bear	msidorov@mit.edu; msidorov@	n pre	Investigation of Postnatal Drug Interventions Potential in I	MIT	UNC - Postdoc Associate	ye
									-
Grant Year	First Name	Last Name	Mentor Name	Current Contact Information	Туре	Application Title	Institution (Appli	Current Position	Sc
2011	lill	Locke	David Mandell	jlocke@upenn.edu	Post	Modify an evidence-based social skills intervention t	U Penn	University of Washington Research Assistant Professo) ye
2011	Haley	Speed	Craig Powell		Post	Identify impairments in synaptic connectivity in gene	UT Southwestern	UT Southwestern Asst. Instructor in Neurology	ye
2011	Elena	Tenenbaum	Stephen Sheinkopf	etenenbaum@wihri.org	Post	Attentional Distribution and Word Learning in Children	Brown	Women and Infants Hospital - Postdoc Research Fello	ye
2011	Portia	McCoy	Ben Philpot		Post	Hypothesize that Ube3a is required for the structura	UNC	UNC - Postdoc Fellow	ye
2011	Christie	Buchovecky	Monica Justice		Pre	Identifiying Genetic Modifiers of Rett Syndrome in the	Baylor	Baylor College of Medicine - Postdoc Fellow	ye
2011	Jessica	Bradshaw	Robert L. Koegel		Pre	Prelinguistic Symptoms of Autism Spectrum Disorde	UC-Santa Barbara	UC-Santa Barbara Predoctoral Clinical Internship at R	: ye
Grant Yoor	Eirst Name	Last Name	Montor Namo	nt Contact Information (Ann	Tuna	Application Title	titution (Applica	Current Bacition	50
2012	Inna	Last Name	Palph Aval Mullar	ifisman@sciences.sdsu.edu	Post	Multimodal Imaging of Social Brain Networks in ASD	San Diego State	San Diago State Linivericty Asst Research Professor	30
2012	Kanyo	Hopppor	Nowschaffor	institati@sciences.susu.euu	Post	Eni & Riostatistic Challenges in EARL	Draval University	Dravel School of Public Health	ye
2012	Haruki	Higashimori	Newschaffer		Post	Role of Astropytic Glutamate Transporter GLTI in Era	Tufte	Tufts Post-doc Scholar	ye
2012	April	Levin	Charles Nelson		Post	Identifying Early Biomarkers in ASD using EEG	Boston Children's	Hanvard Medical School Instructor in Neurolomy	ye
2012	Klaus	Libertus	Reberca Landa	libertus@kennedykrieger.org	Post	Effect of Active Motor & Social Training on Develop	Kennedy Krieger	I I niversity of Pittsburgh - Research Associate	ye
2012	Alex	Shcheglovitov	Dolmetsch	indertus er kennedykneger.or	Post	Lising Induced Pluripotent Stem Cells to study PMS	Stanford	University of Litah Asst Professor of Neurobiology an	ye
2012	Nina	Leezenhaum	lana lyerson	nhl3@nitt.edu	Pro	Postural & Vocal Development in 1st year in Baby Si	Liniversity of Pitts	University of Pittshurgh - PhD Student	Ve
2012	lennifer	Moriuchi	Ami Klin	iennifer moriuchi@emory ed	Pre	Understanding Heterogeneity in School-Age Children	Emony University	Emory University Graduate Student in Psychology	Ve
2012	Rebecca	Larke (Simon)	Karen Bales	ienne indente enter ped	Pre	The Role of Serotonin in Social Bonding in Animal M	University of Calif	UC Davis Psychology Teaching Asst	ve
Contraction of the second s						Bin Annua III			1.1.4

Total of 36 funded fellows, 286 unfunded fellows



Be careful of complete automation

Lab head

Boaz Barak

Tel Aviv University

Department

School of Psychological Sciences and Sagol School of Neuroscience

About Boaz Barak

In my lab, we study the neurobiological mechanisms responsible for abnormal social and anxiety-like behaviors in genetic neuropsychiatric disorders such as Williams syndrome and autism. I did my postdoctoral...



Boaz Barak

> Gordon McKay Professor of Computer Science

Boaz Barak is the Gordon McKay professor of Computer Science at Harvard University's John A. Paulson school of Engineering and Applied Sciences. Until January 2016 he will also continue in his position as a principal researcher in Microsoft Research New England where he has worked since 2010.

His research interests include all areas of theoretical computer science, particularly cryptography and computational complexity. Previously, he was an associate

professor (with tenure) at Princeton University's computer science department, and before that













Average number of publications



Interpretation: great scientists are applying to ASF. They may not always stay in autism research, but they are publishing!



publications by award type





Lets discuss...

- Altmetric what is this really measuring? Who else uses it?
- Collaborators names on a paper or true collaborations? i.e. genetics studies
- Should we stratify by "stayed in autism research" vs. "didn't stay" for other outcomes



Takeaways

- If you have funding to do this analysis, pay someone to do it
- 4 year outcomes are not nearly as interesting as 8 year outcomes
 - Academic positions
 - Seniority and leadership positions
 - Most predocs are postdocs
 - Most postdocs were still postdocs
- Consider additional metrics besides
 bibliometrics metrics
- When talking success of people, sometimes stories are better than numbers

