



# Allen Institute: Open science in research and education

















- Established 2003 by Paul G. Allen
- South Lake Union, Seattle, WA
- 800+ employees

hard problems complexity foundational biology big science team science open science





## Open science empowers research and education

### **Open science:**

- Datasets
  - Lab protocols
    - Equipment schematics
    - Analysis and visualization software
- Findings and results

#### Open science in research:

- Accelerate research across the field
- Promote transparency
- Empower low-resource researchers
- Enhance human health

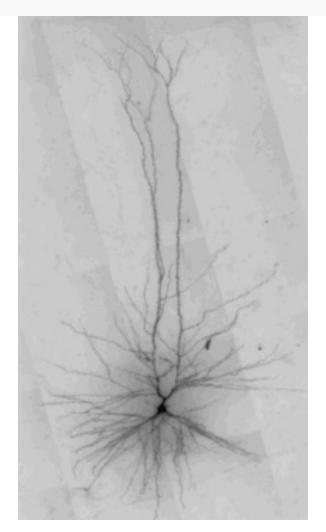
#### Open science in education:

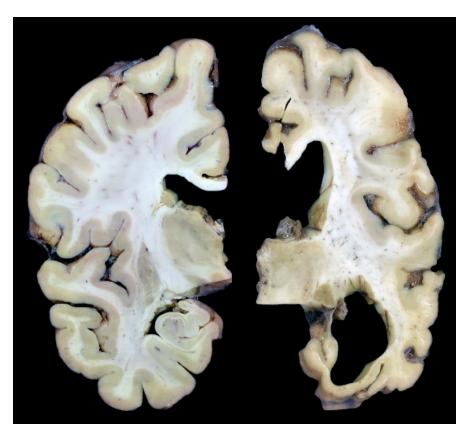
- Share cutting-edge research topics
- Introduce analysis techniques and skills critical for science careers
- Enable student research projects with research-grade data



### **Cutting-edge neuroscience impacts research** and health

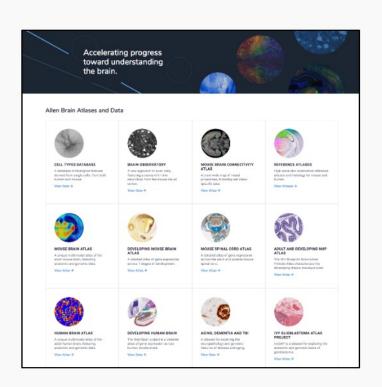


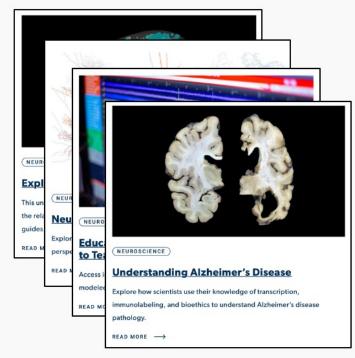




### **Education & Engagement at Allen**

Our Mission: Use the Allen Institute's open science resources to educate, engage, & inspire diverse communities and develop the next generation of science professionals







**OPEN DATA** 



INNOVATIVE CURRICULA



STUDENT PROGRAMS, EDUCATOR WORKSHOPS. & MORE

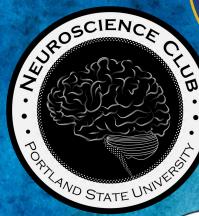




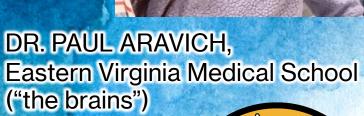
## THANKYOU























ELEVEN YEARS (SINCE 2012)!
NO ADMISSION - NO TUITION - OPEN TO EVERYONE
65,000+ PUBLIC K12 STUDENTS/COMMUNITY MEMBERS
LOCAL/NATIONAL/INTERNATIONAL COLLABORATORS



### GOPLACES

Siletz, Amity & Willamina, OR Pop: 4000

Sisters, OR

Pop: 3081

Davenport, WA Pop: 1700

A few places we've been

La Grande, OR Pop: 13,000

Heppner & Ione, OR Pop: 1240

Astoria, OR Pop: 10,000

-WHERE STEM PROGRAMS DON'T GO

-WHERE MONEY AND RESOURCES DON'T GO

-PUBLIC K-12 SCHOOLS

-RURAL AND URBAN COMMUNITIES

-HOUSELESS YOUTH NONPROFITS

-CORRECTIONAL FACILITIES

Meservy Meadows, OR Pop: ~40







## LISTEN

-LIVED EXPERIENCES
-RELEVANT KNOWLEDGE
-SEEING OTHER PEOPLE



### HOMELESSNESS

& THE BRAIN Portland, OR





#showusyourbraincell





- -EMPOWER NEW VOICES
- -BROADEN THE CONVERSATION
- -MAKE PUBLIC INVESTMENT IN RESEARCH RELEVANT
- -INVITE NEW PARTICIPANTS, PERSPECTIVES & BRAINS





## INFORM POLICY

- -RESEARCH TOPICS ARE POPULAR!
- -INTERDISCIPLINARY/STEAM APPROACHES WORK
- -1. SCHOOL START TIMES FOR ADOLESCENTS
- -2. PERMANENT STANDARD TIME
- -3. HOUSING FIRST







#### Healthy start times



#### What is changing?

We are changing our schools' start times schedule next year based on learnings from community feedback as well as the most current research about adolescent development. We plan to solidify our bell schedules and announce the official new times before the last day of



## SHAKETTUP

SUPPORT INNOVATION, NOT INSTITUTIONS; MORE ACCESSIBLE GRANTS FOR EDUCATORS, ARTISTS, SMALLER LOCAL NONPROFITS





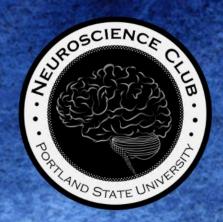
-EXISTING INSTITUTIONS SUPPORT
THEMSELVES. THEY GET RESOURCES,
BUT DON'T NECESSARILY INNOVATE
OR EMPOWER NEW VOICES.

-GOING PLACES TO LISTEN, SHARE STORIES, MAKE ART AND COLLABORATE ENGAGES AND INSPIRES MORE PEOPLE, GENUINELYINCREASING DIVERSITY IN RESEARCH AND PUBLIC POLICY.

-LIKE DEVELOPING BRAINS IN CHANGING CIRCUMSTANCES, RISK AND PLASTICITY ARE REQUIRED TO ADAPT, DISCOVER, INNOVATE AND THRIVE.







# EMPOWERING COMMUNITIES & OFFSETTING DISPARITY



 Neuroscience education combats neuromyths (misinformation about the brain)

 Outreach helps break down detrimental stigmatization, empowering communities through personal engagement