

**HARVARD
CATALYST**

What can Harvard Catalyst do for you?

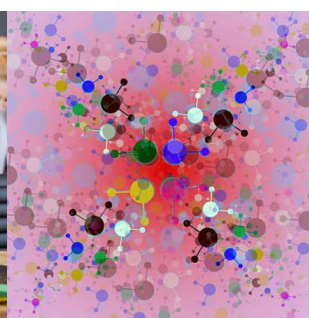
Noelle Huntington, PhD

Faculty co-lead Connector and CT Research Academy Programs

noelle_huntington@hms.harvard.edu

October 29, 2024

THE HARVARD CLINICAL &
TRANSLATIONAL SCIENCE CENTER

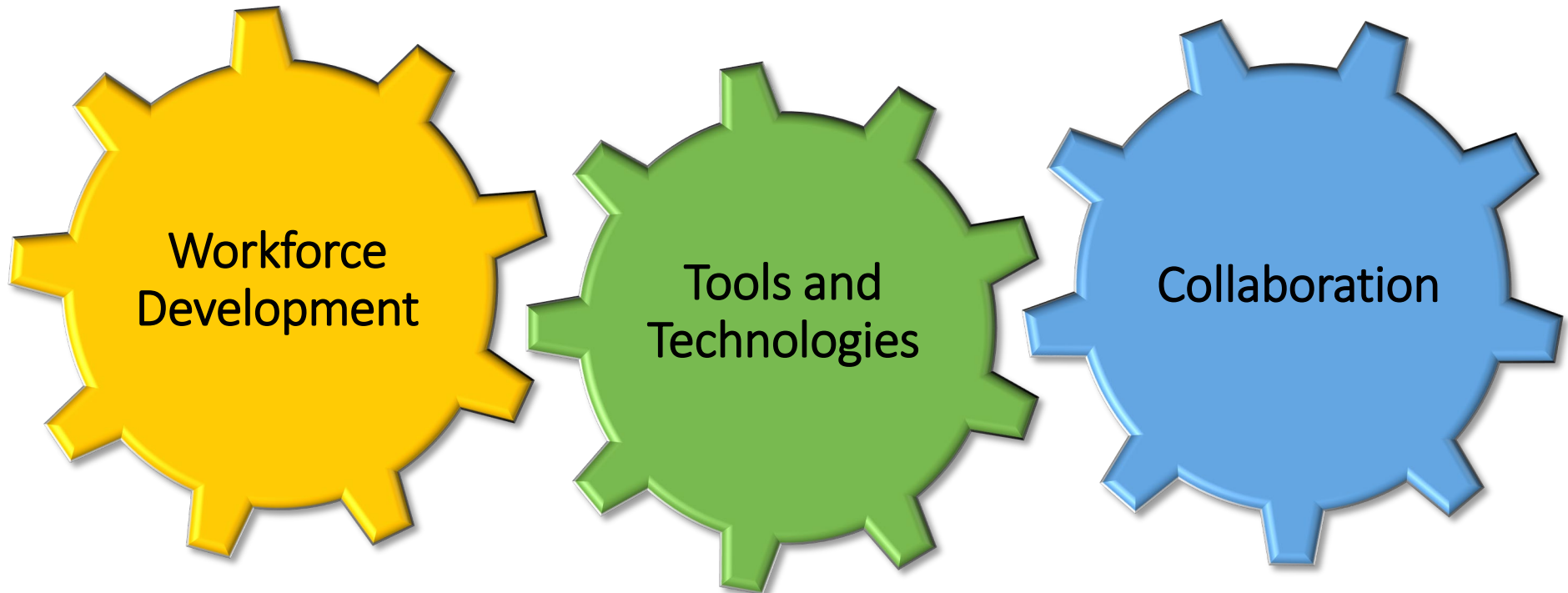




**HARVARD
CATALYST**

Mission

Harvard Catalyst brings together the intellectual force, technologies, and clinical expertise of Harvard University and its affiliates and partners to improve human health.





**HARVARD
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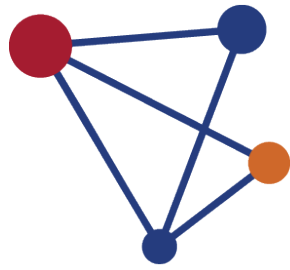
Funding

- NIH National Center for Advancing Translational Sciences (NCATS) - CTSA
- Harvard University
- Harvard Medical School
- Harvard T.H. Chan School of Public Health
- Beth Israel Lahey
- Boston Children's Hospital
- Brigham and Women's Hospital
- Dana-Farber Cancer Institute
- Massachusetts General Hospital



National Center
for Advancing
Translational Sciences





**HARVARD
CATALYST**



Train

Courses and Educational Programs



Connect

Tools and Services to Support Collaboration



Support

Guidance for Trainees and Investigators



Include

Community Engagement and Diversity Inclusion



**HARVARD
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catalyst.harvard.edu

[About](#) [News & Highlights](#) [Calendar](#) [Contact](#)

SEARCH



**HARVARD
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Train



Connect



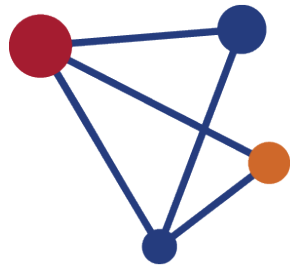
Support



Include

**Accelerating Research.
Improving Health.**

NUMERICAL APERTURE : 0.65
MAGNIFICATION : x40



HARVARD CATALYST



Train

Courses and Educational Programs



Connect

Tools and Services to Support Collaboration



Support

Guidance for Trainees and Investigators

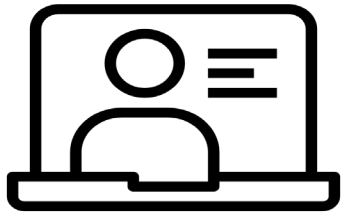


Include

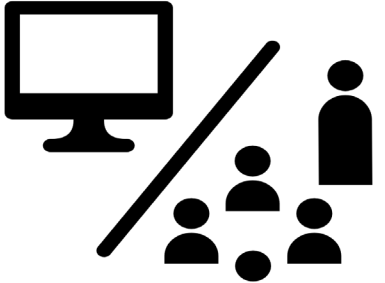
Community Engagement and Diversity Inclusion



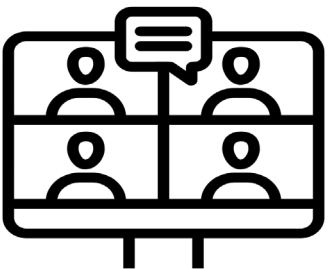
Workforce Development



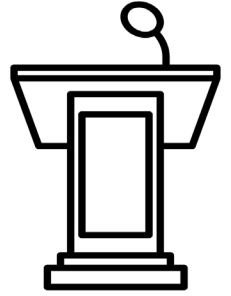
Online Courses



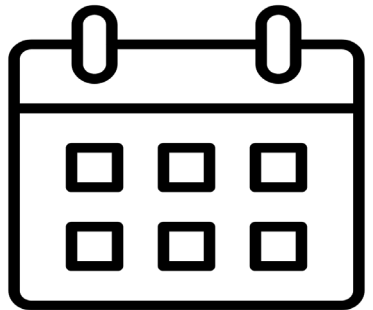
Hybrid Courses



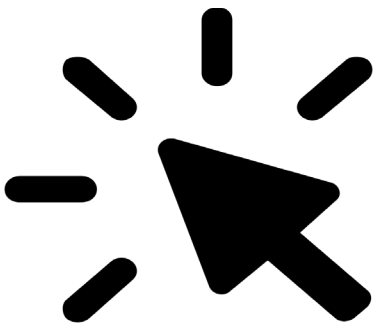
Webinars



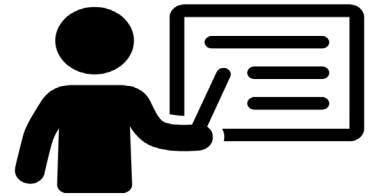
Face-to-Face Courses



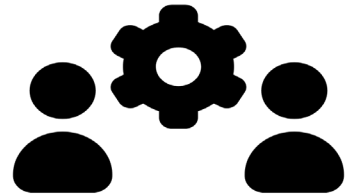
Longitudinal Programs



Always Available Content



Faculty Development



Customization and Coaching

Research Methods Courses

Fundamentals of Comparative
Effectiveness Research

Introduction to Designing &
Conducting Mixed-Methods Research

Introduction to Implementation
Research

How to Design a Clinical Study

Community-Engaged Research

Boundary-Crossing Skills For Research Careers

Team science

Build, engage in, and sustain diverse teams

Mentorship

Establish effective mentoring relationships

Project management

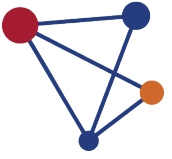
Create, manage, and deliver projects

Communication

Advocate for yourself, your team, and your science

Leadership

Manage yourself and others



Grant Writing Courses

**Funding Your
Research:**
NIH

Funding Your Research:
Non-NIH Government
Agencies

Funding Your Research:
Foundations and
Philanthropy

**Funding Your
Research:**
Industry

Government Funding

Non-Government Funding

Techniques to Writing a Competitive Grant

Goals:

- Know the **preliminary components** needed to apply for any grant funding.
- Appreciate the importance of **communicating** grant ideas clearly.
- Understand the **basic construction of a grant** and how to address each section.
- Understand the **budget** process and its implications.
- Understand the aspects of a general **peer review** process and what happens after the application leaves your hands.



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Course Listings

Train

Education is at the core of Harvard Catalyst's mission. We strongly believe that supporting the educational development of clinical and translational researchers across Harvard University and beyond is integral to advancing medicine and human health.

Access Harvard Catalyst On-Demand

Browse Our Courses

OFFERING	DESCRIPTION	DURATION	DEADLINE
Project Management Strategies for Research Team Members	Webinar series on the principles of project management	4 days	Ongoing
Introduction to Designing & Conducting Mixed Methods Research	Online course introducing participants to mixed methods research in the health sciences	8 weeks	10/9/2024 (Closed)  Notify me when available.

 [see more courses](#)



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Catalyst on Demand

- A self-learning, fully asynchronous format, available anytime
- Work through the course from start to finish or jump to relevant sections; use quizzes and cases test your knowledge
- New courses added periodically



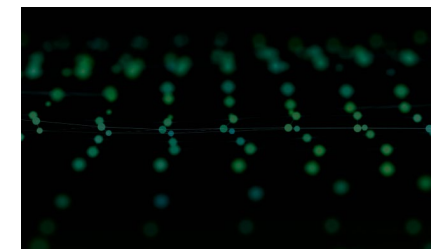
**Biostatistics Essentials:
Video Subscription**



**Genomic Medicine in
Clinical Practice**



**Techniques to Writing a
Competitive Grant**



**Essential Skills for
Conducting Clinical &
Translational Research**



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Longitudinal Programs



Certificate in Applied Biostatistics

- Comprehensive year-long overview of biostatistics in C/T research
- Audience: MD, PhD, or equivalent
- Track 1: September-April: core curriculum
Track 2: September-July: core curriculum plus advanced topics

Paid version:

Includes course interactions, study cases, and exercises and provides a certificate of completion.

Track 1: \$1750

Track 2: \$2800

Free version:

Access to the lecture videos only; requires a Harvard key login

Introduction to biostatistics	Study design and statistical communication	Regression techniques	Correlated outcomes	Time to event outcomes and additional topics
<ul style="list-style-type: none">•What is Biostatistics?•Probability•Confidence Intervals for Estimates and Hypothesis Testing•ANOVA•Nonparametrics•Analysis of Proportions•Linear Regression	<ul style="list-style-type: none">•Elements of Study Design•Sample Size and Power•Writing the statistical sections for a research proposal or report•Observational Study Designs•Clinical Trials•Agreement Studies•Factorial Designs	<ul style="list-style-type: none">•Multiple Linear Regression•Regression Diagnostics•Multiple Linear Regression and Partial F-Tests•Interpretation of Interaction Terms•Stepwise Selection/Alternative Model Selection Approaches•Logistic Regression•Model Diagnostics for Logistic Regression	<ul style="list-style-type: none">•Introduction to Longitudinal Data•Analysis of Response Profiles•Fitting Curves to Longitudinal Data•Mixed Effects Models•Multilevel Models•Handling Missing Data•Repeated measures analysis with dichotomous outcomes	<ul style="list-style-type: none">•Survival Analysis•Comparison of Survival Curves•Cox Proportional Hazards Regression•Power Analysis/Study Design with Survival Outcomes•Multiple Comparisons•Meta-Analysis•Factor Analysis/Path Analysis



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 Career Catalyst

Apply in the
Summer

Matches early-career investigators with senior faculty **developmental mentors** who offer guidance on **overall career development**.



Program runs September through June.

- 3:1 mentee to mentor ratio
- Twice-monthly meetings



K12 Training Program/Fellowship

K12

A mentored research and education program for early-career investigators

Audience	Details	Program Requirements
Research or health-professional doctoral degree Faculty within the first three years of appointment or senior fellowship appointment at a Harvard Catalyst-affiliated institution	Program Length: <i>Two years</i> Salary Support: <i>50-75% of salary</i>	Must be able to commit 75% of professional effort to the program (surgeons may be eligible to commit 50% time)

**Applications due
in the early spring.**



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Grant Writing: GRASP

Grant Review And Support Program



Program Goal: Position K awardees and K12 trainees to obtain NIH R01 grants (or equivalent) by providing grantsmanship guidance, training, and ongoing writing review and support.

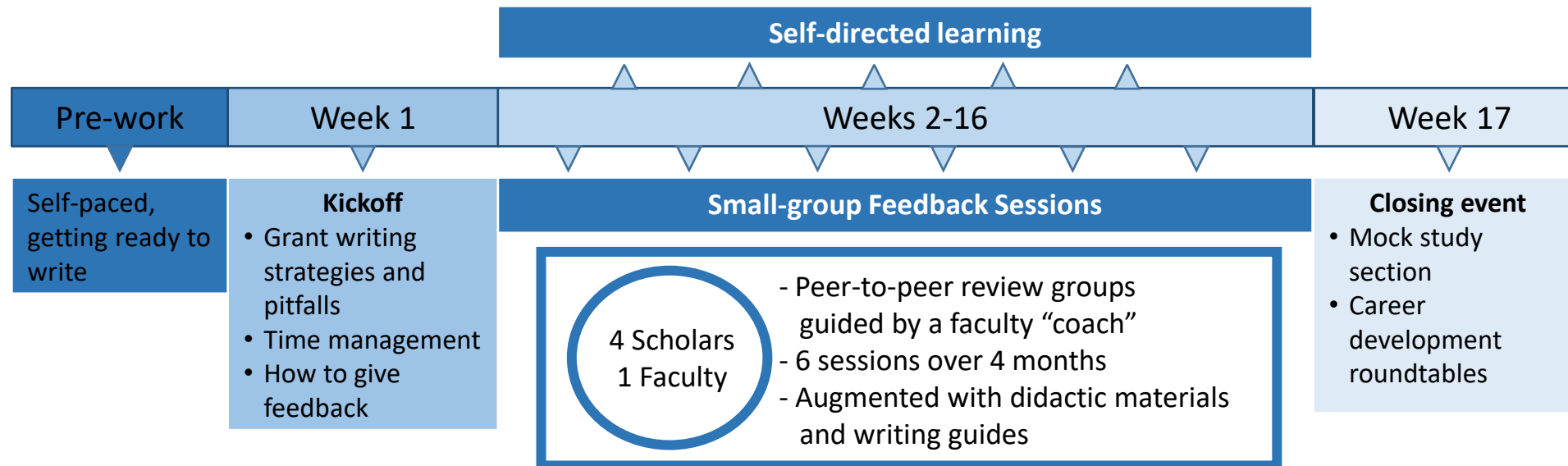
**Applications due
in the summer.**

**this program is by invitation only through competitive application*

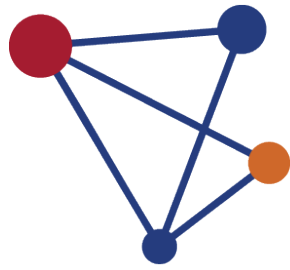


CT Research Academy *First-Grant Bootcamp*

Experiential grant writing program for new investigators ready to write their first grant application (e.g., F32, foundation, or professional society grant)



Applications for next session due December 11



HARVARD CATALYST



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Support

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Include

Community Engagement and Diversity Inclusion



Home About Help History (0) Search Profiles (people, publications, concepts, etc.)

[Login](#) to edit your profile (add a photo, awards, links to other websites, etc.)

Profiles Stats

24111 People
717503 Publications
15527 Grants

Recent Updates



[Amitoj Singh](#)
January 2, 2019

made "photo"public



[Franziska Plessow](#)
January 2, 2019

added a publication from:
The International journal
of eating disorders



[Ruben Hoogeveen](#)
January 2, 2019

added a publication from:
Gut

[See more updates](#)

Find People

Find Everything Else

Find People by Research Topic or Name

Research Topics

Search for exact phrase

and / or

Last Name

First Name

Institution

None selected

All except the one selected

Department

None selected

All except the one selected

Faculty Type

None selected

Other Options

None selected

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Growth Factor Type
2](#)

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[Molecular](#)

[Pathological](#)

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[Receptor Fibroblast
Growth Factor Type
2](#)

[Rheumatology](#)

[biology](#)

[Pathological](#)

[Nanomedicine](#)



Profiles (Individual Profiles)

[Login](#) to edit your profile (add a photo, awards, links to other websites, etc.)

Lee Marshall Nadler, M.D.

Title Dean for Clinical and Translational Research
Institution Harvard Medical School
Department Clinical and Translational Science Center
Address Dana Farber Cancer Institute
Adult Oncology
44 Binney St
Boston MA 02115
Phone 617/632-3331
Fax 617/632-3541
Email lee_nadler@dfci.harvard.edu
vCard [Download vCard](#) (login for email)

Other Positions

Title Virginia and D.K. Ludwig Professor of Medicine
Institution Dana-Farber Cancer Institute
Department Medicine

[groups](#) | [research activities and funding](#) | [selected publications](#)

Affiliation

groups

- [Harvard Catalyst](#) (Member)

Research

research activities and funding

The research activities and funding listed below are automatically derived from NIH ExPORTER and other sources, which might result in incorrect or missing items. Faculty can [login](#) to make corrections and additions.

Most Recent | [List All](#)

1. UL1TR002541 (NADLER, LEE MARSHALL) May 1, 2018 - Apr 30, 2023
NIH/NCATS
The Harvard Clinical and Translational Science Center
Role: Principal Investigator

Nadler's Networks

Click the [Explore](#) buttons for more information and interactive visualizations!

Concepts (852)

[Clonal Anergy](#)
[B-Lymphocytes](#)
[Bone Marrow Transplantation](#)
[Antigens, Neoplasm](#)
[T-Lymphocytes](#)

[Explore](#)

Co-Authors (112)

[Freeman, Gordon](#)
[Freedman, Arnold](#)
[Boussiatis, Vassiliki](#)
[Guinan, Eva](#)
[Weisskopf, Marc](#)

[Explore](#)

Similar People (60)

[Freeman, Gordon](#)
[Tsokos, George](#)
[Sayegh, Mohamed](#)
[Ferrone, Soldano](#)
[Sharpe, Arlene](#)

[Explore](#)

Same Department

[Holm, Ingrid](#)
[Huntington, Noelle](#)
[Merchant, Roland](#)
[Mukamal, Kenneth](#)
[Pumbo, Genoa](#)



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Research Tools

The **ENACT Network** is a web-based query tool that allows investigators to determine the aggregate number of patients seen at participating hospitals who meet clinical criteria of interest.

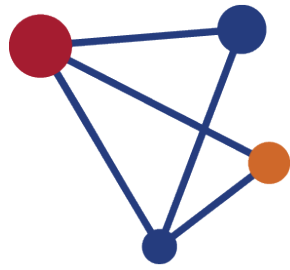


Harvard Catalyst supports **SMART IRB**, a national platform to enable IRB reliance and advance collaborative research across the nation.

In Development

Catalyst Connect is a searchable compendium of resources from across Harvard, the hospitals, and Harvard Catalyst for conducting research, research education, and building your research career. (launching in 2025)





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Regulatory Resources

Regulatory Foundations, Ethics, and Law Program

Provides Guidance and Materials

Templates, trainings and tools

Advocates for Research Subjects

Educates researchers and patients on research subject rights and protections

Promotes Collaboration and Interoperability

Coordinates agreements and institutional harmonization to support multisite research

Reduces Barriers

Facilitates data-sharing and compliance

<https://catalyst.harvard.edu/programs/regulatory>



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Writing and Communication Center

A comprehensive collection of tools, trainings, and resources that empower C/T investigators to better articulate their science



GET FUNDED →

Discover ways to employ tools of the trade to maximize your chances of success. Learn to navigate the proposal and writing process across a variety of funding mechanisms.

SPEAK ELOQUENTLY →

Articulate the narrative of your science by speaking eloquently to a diversity of audiences —from colleagues, to journalists, to funders, to the general public.

VISUALIZE SCIENCE →

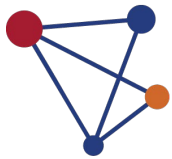
Maximize your audience's understanding by effectively visualizing science on posters, slides, grant applications, and manuscripts.

WRITE EFFECTIVELY →

Create effective written communication for a variety of mediums and audiences, using manuscripts, chapters, and regulatory documents.

GROW PROFESSIONALLY →

Communicate effectively about yourself and your research in interviews, CVs, and networking opportunities to grow professionally.




NIH K Grant Specific Aims Consultation Service

- Available to anyone in the Harvard Catalyst community
- Participants commit to reviewing content highlighted in the Writing and Communication Center to prepare their aims pages for review

GET FUNDED WRITE EFFECTIVELY DELIVER AUTHENTICALLY VISUALIZE SCIENCE GROW PROFESSIONALLY

HOME /

CONSULTATIONS



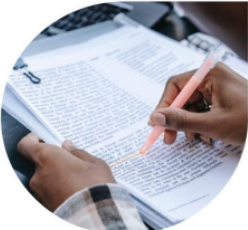
NIH K GRANT APPLICANTS: APPLY TO HAVE YOUR SPECIFIC AIMS PAGE REVIEWED

[APPLY HERE](#)

Apply to be a part of our pilot Specific Aims Page Consultation Service! The pilot will run from August 2022 through January 2023. This consultation service provides individualized feedback on draft Specific Aims pages to applicants who are applying for NIH K grants. Harvard faculty who have demonstrated recent success in NIH grant funding will serve as consultants, offering edits and feedback on submitted draft aims. The consultations will occur remotely.

Eligibility
To be considered for the service, applicants must:

- be from a Harvard-affiliated **school or institution**.
- be planning to submit a NIH K grant application.
- be at least 2 months out from their grant submission deadline (applicants with fewer than two months until their deadline will not be considered).
- have a fully-written draft of their Specific Aims page ready to submit.



Preparation
Applicants should be prepared to attach a fully-written draft of your Specific Aims page to the application. Before applicants submit their draft Specific Aims they must review the recommendations laid out on the [Grant Writing Tips](#) resource on the website. In particular, their draft Specific Aims page should follow the guidance on the following pages:

- [Write Your Specific Aims Page](#)
- [Use Style Tips](#)
- [Common Grant Writing Mistakes](#)

<https://writingcenter.catalyst.harvard.edu/consultations>



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Consulting Services



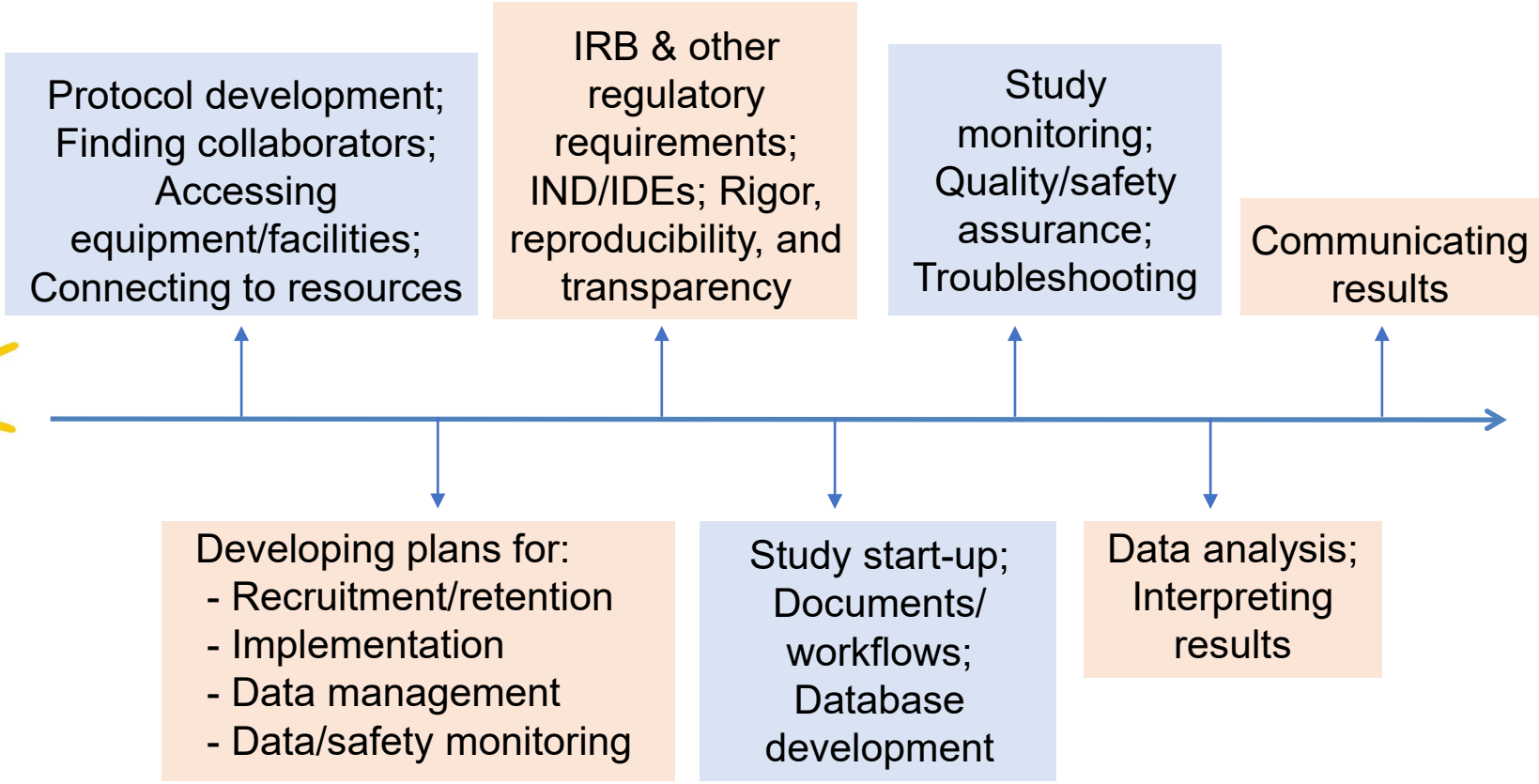
- Biostatistics
- Bioinformatics
- Investigational New Drug (IND) and Investigational Device Exemption (IDE)
- Quality Assurance/Quality Improvement (QA/QI)

Free for clinical and translational researchers in the Harvard community



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Connector Consultation and Support





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Connector Consultation and Support

Clinical Research Teams

- Medical research officers
- Project coordinators
- Recruitment specialists
- Research resource specialists

Services

- Navigation
- Consultations (free)
- Instrumental support (free or fee for service)



MASSACHUSETTS
GENERAL HOSPITAL



BRIGHAM AND
WOMEN'S HOSPITAL

Beth Israel Lahey Health 
Beth Israel Deaconess Medical Center



Boston
Children's
Hospital



Connector Consultation and Support

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Services

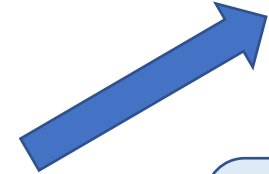
- Navigation
- Consultations (free)
- Instrumental support (free or fee for service)

Request System:

- Request consult or support
- Ask a question or for help locating resources



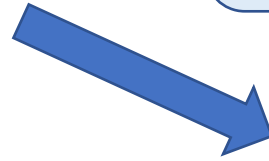
Central point of contact / triage



Sets up consults appointments



Directs PI to right person or place to access needed services



Answers questions



Connector Consultation and Support

Clinical Research Teams

- Medical research officers
- Project coordinators
- Recruitment specialists
- Research resource specialists



**Translational and Clinical
Research Center**
tcrcinfo@mgh.harvard.edu



Clinical trials and other CT research:
Protocol development; IRB submissions; recruitment plans; DSM plans; study documents; recruitment and consent; troubleshooting, etc.

Services

- Navigation
- Consultations (free)
- Instrumental support (free or fee for service)

**Division of Clinical
Research**

Request a consultation >



Biostatistics; Community Engagement Research; Comparative Effectiveness Research; Drug Discovery; Global Health Research; Qualitative and Mixed Methods; Survey Research, etc.



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Connector Laboratory Services

Joint Contract with Quest

- Discounted/bulk pricing on 1000s of lab tests
- Local projects
- Multi-site national projects

Options

- Pickup samples from site
- Blood-draw centers
- Batch testing of stored samples

catalyst.harvard.edu/connector/lab-services/

tcrinfo@mgh.harvard.edu



MASSACHUSETTS
GENERAL HOSPITAL



BRIGHAM AND
WOMEN'S HOSPITAL

Beth Israel Lahey Health



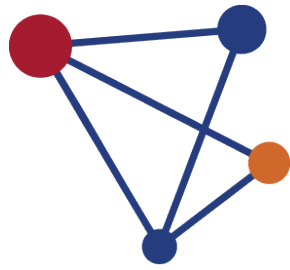
Beth Israel Deaconess Medical Center



**Boston
Children's
Hospital**

Until every child is well™





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**HARVARD
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Community Coalition for Equity in Research



The Problem

Research efforts tend to engage communities after studies have been designed.

This makes it hard to change the studies to address community needs or concerns.



Our Solution

A standing, trained community coalition that provides feedback on research during development.


Co-led with community and clinical partners.





Email community@catalyst.harvard.edu if you are interested in having your study reviewed by our coalition



Stay in Touch

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 **Train** |  **Connect** |  **Support** |  **Include**

Harvard Catalyst

The Harvard Clinical and Translational Science Center
1635 Tremont Street
Boston, MA
02120







Questions? Ask Us.

Do you have a question about Harvard Catalyst or this website? Send an email to contact@catalyst.harvard.edu.

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Harvard Catalyst Profiles

For questions about Harvard Catalyst Profiles, please visit the [Harvard Catalyst Profiles FAQ page](#) or email us at contact@catalyst.harvard.edu.

Newsletter
Sign-up





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Events
Calendar

Lecture: Psychiatric/Mental Health Nursing and Its Effect on the Law, Forensics, and Patient Care – October 28

October 28, 2024

Lecture: Psychiatric/Mental Health Nursing and Its Effect on the Law, Forensics, and Patient Care. Nursing pioneer Ann Burgess, forensic nurse scientist Victor Petreca, and former FBI agent Jeff Wood will discuss the impacts of psychiatric/mental health nursing in legal and healthcare realms. A reception will follow.

[See more](#)

Symposium: Harvard University Generative AI – October 30

October 30, 2024

Symposium: Harvard University Generative AI. A university-wide symposium exploring the potential and implications of Generative AI technologies in teaching, learning, and research.

[See more](#)

BIostatISTICS

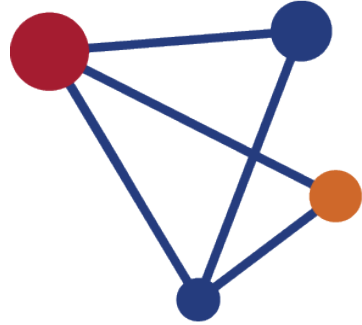
Biostatistics Journal Club: Smartphone Based Digital Phenotyping – November 6

November 6, 2024

Biostatistics Journal Club: Smartphone Based Digital Phenotyping. Jukka-Pekka Onnela, PhD, Harvard T.H. Chan School of Public Health, will lead discussion.

[See more](#)





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<http://catalyst.harvard.edu>

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