



**HARVARD
CATALYST**

What can Harvard Catalyst do for you?

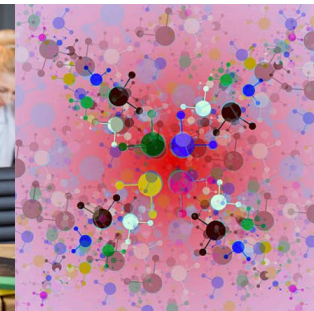
Noelle Huntington, PhD

Director of Connector and Network Programs, Harvard Catalyst

noelle_huntington@hms.harvard.edu

October 4, 2023

THE HARVARD CLINICAL &
TRANSLATIONAL SCIENCE CENTER

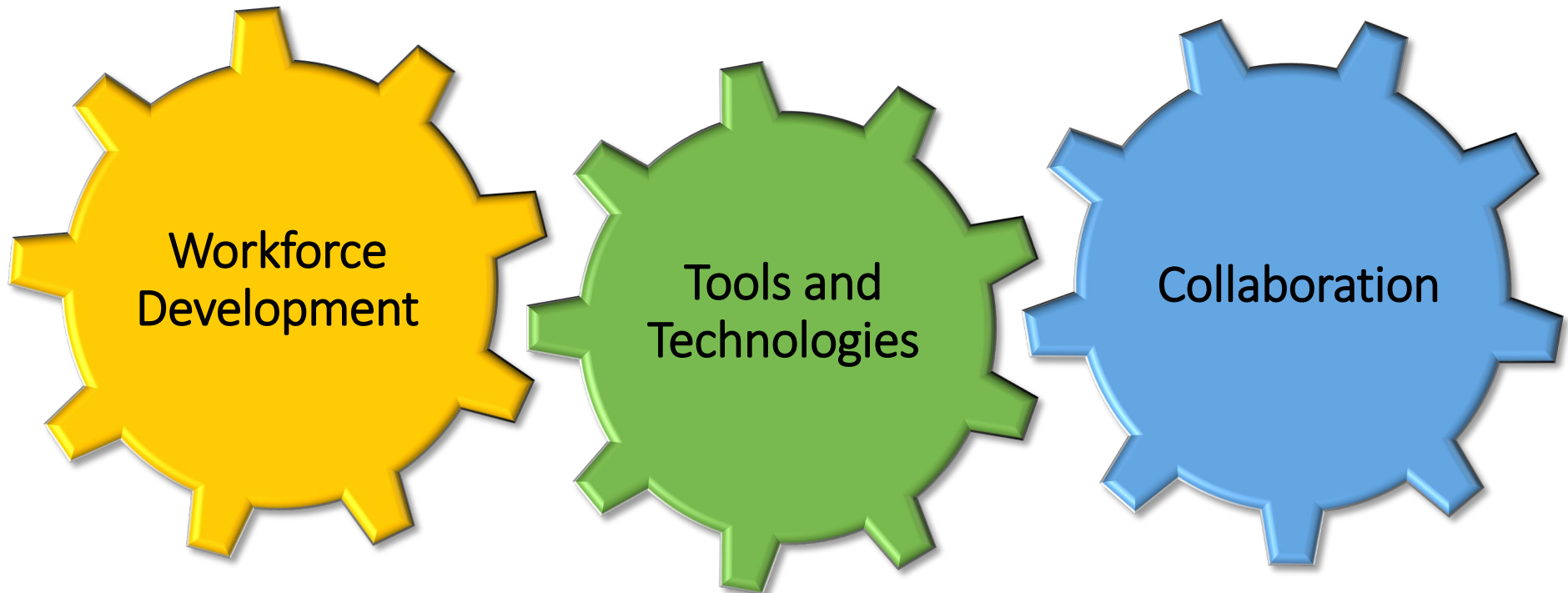




**HARVARD
CATALYST**

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
CATALYST**

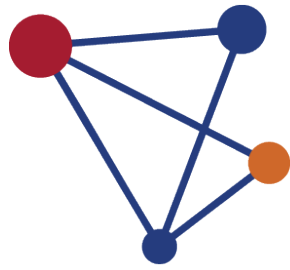
Funding

- NIH National Center for Advancing Translational Sciences (NCATS) - CTSA
- Harvard University
- Harvard Medical School
- Harvard T.H. Chan School of Public Health
- Beth Israel Deaconess Medical Center
- 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



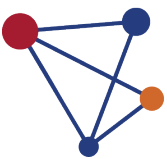
Support

Guidance and Funding for Trainees and Investigators



Include

Community Engagement and Diversity Inclusion



**HARVARD
CATALYST**

catalyst.harvard.edu

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

SEARCH 



Train



Connect



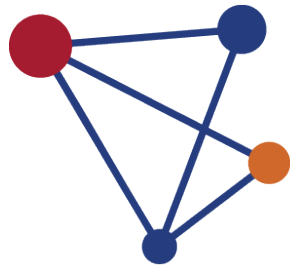
Support



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 and Funding for Trainees and Investigators

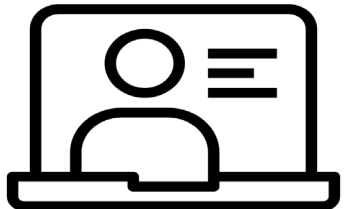


Include

Community Engagement and Diversity Inclusion



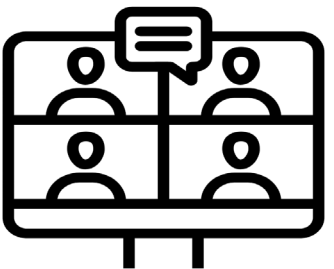
Post-Graduate Education



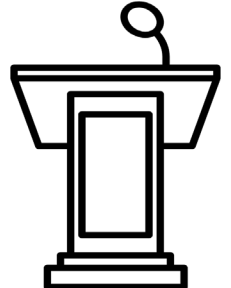
Online Courses



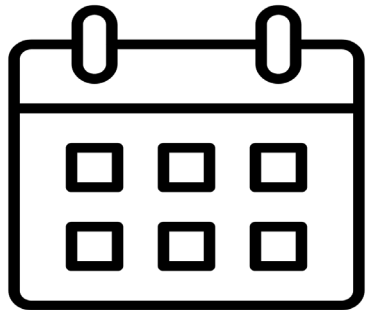
Hybrid Courses



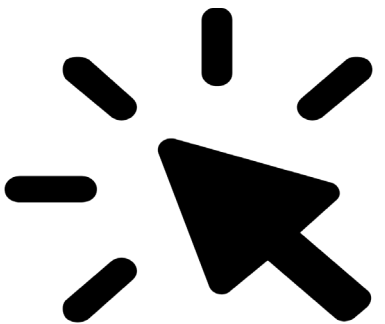
Webinars



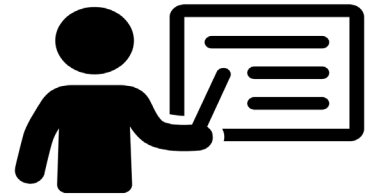
Face-to-Face Courses



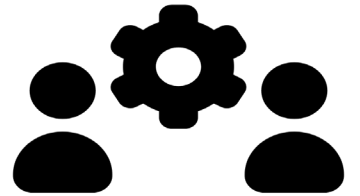
Longitudinal Programs



Always Available Content



Faculty Development



Customization and Coaching



Boundary-Crossing Skills For Research Careers

Ongoing

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

Funding research

Sustain your career through diverse funding



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How to Design a Clinical Trial: Principles and Protocol Development

**Next session in
spring 2024
(most likely)**

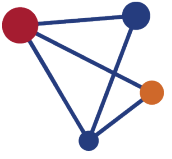
9-week hybrid course on the design and implementation of clinical trials:

- How to design a protocol
- IRB and other regulatory topics
- Trial implementation
- Budgeting
- Data Management
- Statistical analysis

For trainees or junior faculty in the early- or mid-states of study design

Combines on-demand videos with live virtual sessions

Provides personalized guidance for creating a complete protocol by end of course



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Fundamentals of Clinical and Translational Research (FaCToR)

12-week online course to enhance CT research skills:

- Designing rigorous studies
- Selecting appropriate tools for data acquisition and storage
- Identifying and addressing ethical issues
- Operating within regulatory frameworks
- Communicating your findings
- Funding your research

Table of Contents > Unit 2B - T2-T3 > T2/T3 - Ethics and Regulatory Requirements > Data Safety and Monitoring Board (DSMB) and Conflict of Interest (COI)

Data Safety and Monitoring Board (DSMB) and Conflict of Interest (COI)

T2-T3 Ethics and Regulatory Requirements
[2 of 3 Videos]

16:01

Additional Resources

[Click here to read the NIH's full guidelines for DSMBs](#)

Currently running



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Essential Skills in C/T Research

7-week course on the practical skills needed for running a study:

- Protecting the integrity and safety of a study
- Ethical considerations in study management
- Project management
- Successfully working within a team
- Communication and collaboration

Essential Skills for Conducting Clinical & Translational Research

Online course that offers effective ways to conduct clinical and translational research

For research staff or for trainees and junior faculty who are new to conducting C/T Research

Combines on-demand videos with weekly case-studies discussed on a message board

**Next session in
spring 2024**



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Grant Writing Courses

**Funding Your
Research:**
NIH

Funding Your Research:
Non-NIH Government
Agencies

Funding Your Research:
Foundations and
Philanthropy

**Funding Your
Research:**
Industry

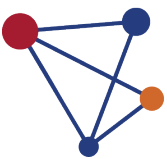
Government Funding

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

*Click for
more
information*

| | | | |
|--|--|------------|---|
| Applied Biostatistics Certificate: Methods & Applications | Online professional certificate program on the principles and methods of biostatistics | 42 weeks | 8/18/2023 (Closed) <input checked="" type="checkbox"/> Notify me when available. |
| Authorship: Best Practices | Webinar on best practices around the topic of authorship. | 1 day | 2/28/2023 (Closed) <input checked="" type="checkbox"/> Notify me when available. |
| Biostatistics Essentials: Video Subscription | Series of short videos on topics in medical biostatistics | varies | Ongoing |
| Biostatistics Training | A 60-credit HSPH master of science program in applied biostatistics | 60 credits | Ongoing |
| Boundary-Crossing Skills for Research Careers | A webinar series providing practical tools for navigating scientific careers | Ongoing | Ongoing |
| Career Catalyst | A program that matches junior investigators with senior faculty who serve as developmental mentors | 10 months | 6/30/2023 (Closed) <input checked="" type="checkbox"/> Notify me when available. |
| Career Transitions: Academia to Industry | A panel discussion on transitioning from a career in academia to industry. | 1 Day | 5/9/2023 (Closed) <input checked="" type="checkbox"/> Notify me when available. |
| Clinical and Translational (C/T) Research Academy | Advanced training program that offers a pathway to conducting independent research | 2 years | 1/28/2022 (Closed) <input checked="" type="checkbox"/> Notify me when available. |
| Community-Engaged Research | Online course preparing researchers and community members to partner in health research | 10 weeks | 9/24/2023 (Closed) <input checked="" type="checkbox"/> Notify me when available. |

*Receive
notifications*



HARVARD CATALYST

LearnResearch Online Catalog

LearnResearch
A searchable compilation of archived topical videos for clinical and translational researchers.

Home > VideosPage 1

Keywords

- Communicating Your Research (24)

Collection

- Effectively Communicating Research (14)
- Introduction to Translational Medicine (1)

Institution

- Harvard Catalyst (24)

Speaker

- Melissa Marshall, MA (5)
- Graham McMahon, MD, MSc, MRCPI (4)
- Elliott Antman, MD (3)
- Jeffrey M. Drazen, MD (3)
- Joseph Loscalzo, MD, PhD (2)
- Naomi Fisher, MD (2)
- Allan J Walkey, MD, MSc (1)
- Amanda Rayno (1)
- Beth Beighlie (1)
- Cheryl Vaughan, PhD (1)

Communicating Your Research X

Clear filters

| VIDEO | SPEAKER | DATE INFO | |
|---|--------------------------------|-------------------|---|
| Creating posters with IMPACT | Beth Beighlie, et al. | October 18, 2012 | → |
| Effectively Communicating Research: Why it Matters | Naomi Fisher, MD | February 28, 2018 | → |
| Examining a Manuscript from an Editor's Perspective | Graham McMahon, MD, MSc, MRCPI | August 28, 2014 | → |
| Exploring Career Opportunities in Translational Science | Donald M. Thea, MD, et al. | June 26, 2018 | → |
| Honing a Standard Research Talk | Naomi Fisher, MD | February 28, 2018 | → |
| How to Deliver a Scientific Presentation Workshop, Part 1 | Melissa Marshall, MA | August 29, 2014 | → |

Filter options



Open-text search

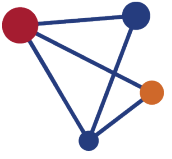


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In Development

Catalyst on Demand

- Many courses will be converted to a self-learning, fully asynchronous format, available anytime
- Learners can work through course from start to finish or jump to sections with particular relevance
- Will still offer quizzes and cases to test your knowledge and challenge your thinking skills (with answers provided afterwards)
- Begin rolling out sometime in 2024; first out will be grant writing courses



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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 junior faculty and senior fellows

| Audience | Details | Program Requirements |
|---|---|--|
| Research or health-professional doctoral degree Junior 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 spring.



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Grant Writing: GRASP

Grant Review And Support Program



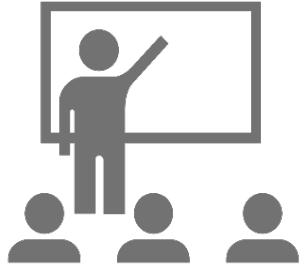
Program Goal: To position K and KL2 awardees to obtain NIH R01 grants or K grants (or equivalent independent researcher awards) and/or alternative sources of research funding by providing grantsmanship guidance, training and ongoing support.

**Applications due
in the summer.**

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



Grant Writing: GRASP



Orientation and Grant Writing Workshop

- Mechanics of writing an NIH K or R grant application
- NIH grant review process
 - Elevator pitch
- Funding beyond the NIH



Long-term Guidance and Participation

- Work plan reviews
- Specific Aims review sessions
- Ongoing grant writing support from GRASP faculty and staff
 - Refresher workshops



Elements of Grant Writing

- Writing tips and tools
 - Work plans
 - Expectations form
- *Resource available to those outside the GRASP program using HarvardKey*



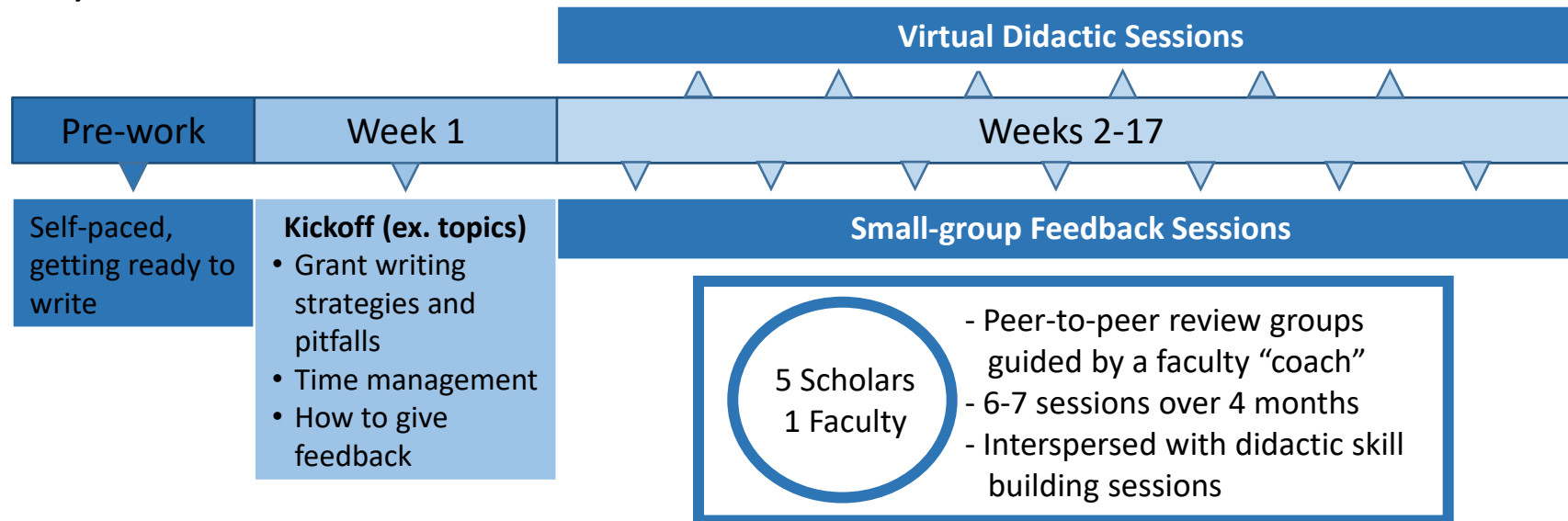
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In Development

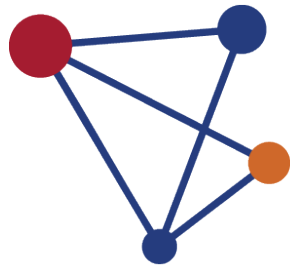
CT Research Academy

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)



First session launching in early 2024



HARVARD CATALYST



Train

Courses and Educational Programs



Connect

Tools and Services to Support Collaboration



Support

Guidance and Funding for Trainees and Investigators



Include

Community Engagement and Diversity Inclusion



Profiles



Harvard Catalyst Profiles

Contact, publication, and social network information about Harvard faculty and fellows.

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 All except the one selected

Department All except the one selected

Faculty Type

Other Options

Most viewed (today)

[Receptor Fibroblast
Growth Factor Type
2](#)
[pleural effusion](#)
[Molecular](#)
[Pathological
cardiovascular
department](#)
[JOSEPH](#)
[virology](#)
[Robert](#)
[Andrew](#)

Most viewed (month)

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[Yoga](#)
[Acupuncture](#)
[biotechnology](#)
[geriatrics](#)
[Receptor Fibroblast
Growth Factor Type
2](#)
[Rheumatology](#)
[biology](#)
[Pathological](#)
[Nanomedicine](#)



[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](#)
[Polumbo, Genoa](#)



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Research Tools

The **Accrual to Clinical Trials (ACT) 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.

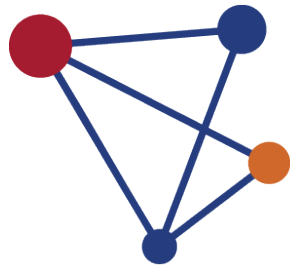


Harvard Catalyst supports **SMART IRB**, a national platform to enable IRB reliance and advance collaborative research across the nation.

In Development

Catalyst Connect is a searchable compendium of research resources for conducting research, research education, and building your research career. Includes resources from Harvard's AHCs and Harvard Catalyst as well as publicly available resources from outside the Harvard system. (launching in 2024)





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Train

Courses and Educational Programs



Connect

Tools and Services to Support Collaboration



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Include

Community Engagement and Diversity Inclusion



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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

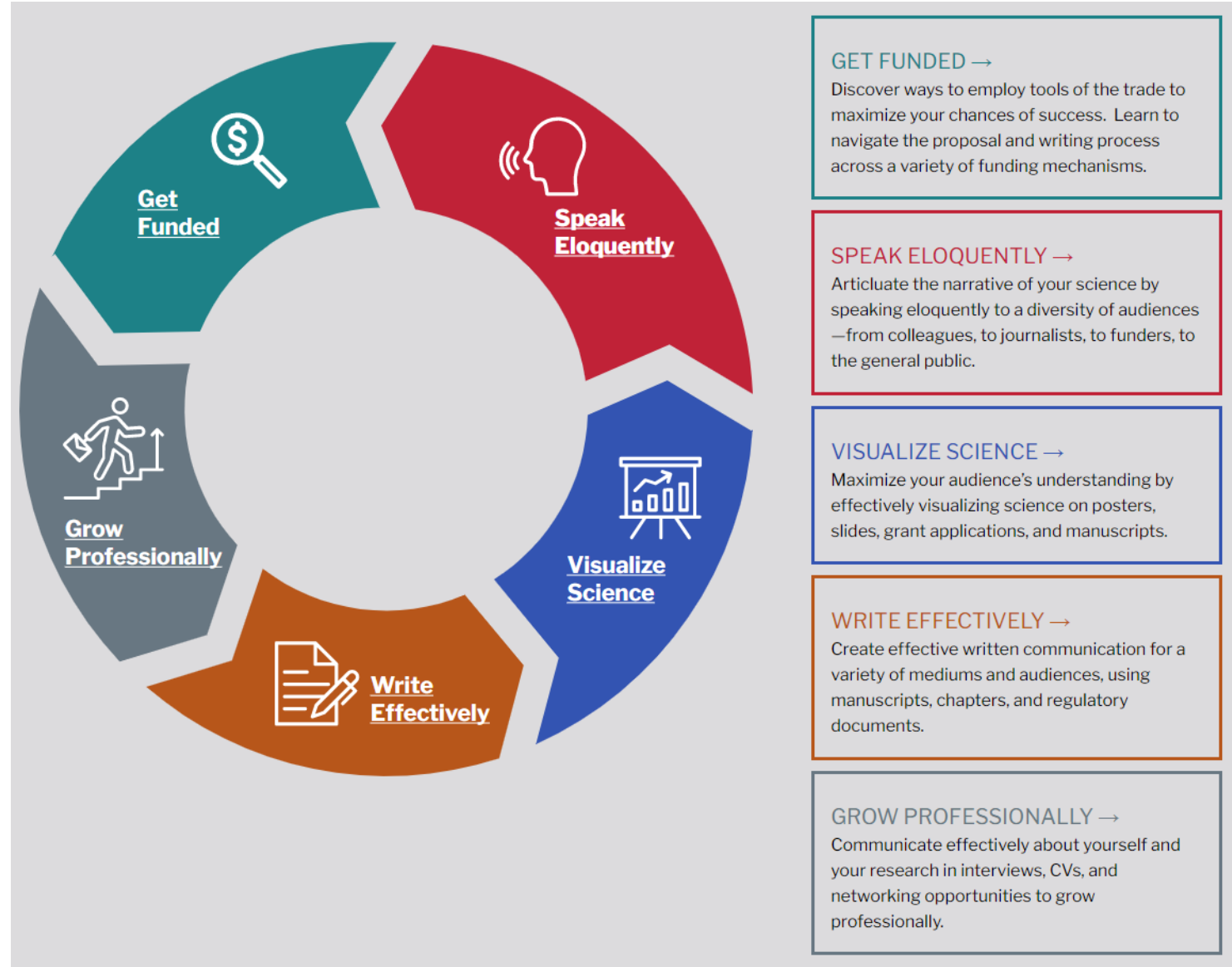
<https://catalyst.harvard.edu/programs/regulatory>



**HARVARD
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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





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Writing and Communication Center

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

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

GET FUNDED WRITE EFFECTIVELY DELIVER AUTHENTICALLY VISUALIZE SCIENCE GROW PROFESSIONALLY

HOME /

CONSULTATIONS



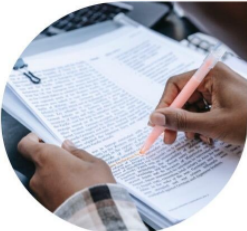
NIH K GRANT APPLICANTS: APPLY TO HAVE YOUR SPECIFIC AIMS PAGE REVIEWED

[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](#)



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Consulting Services



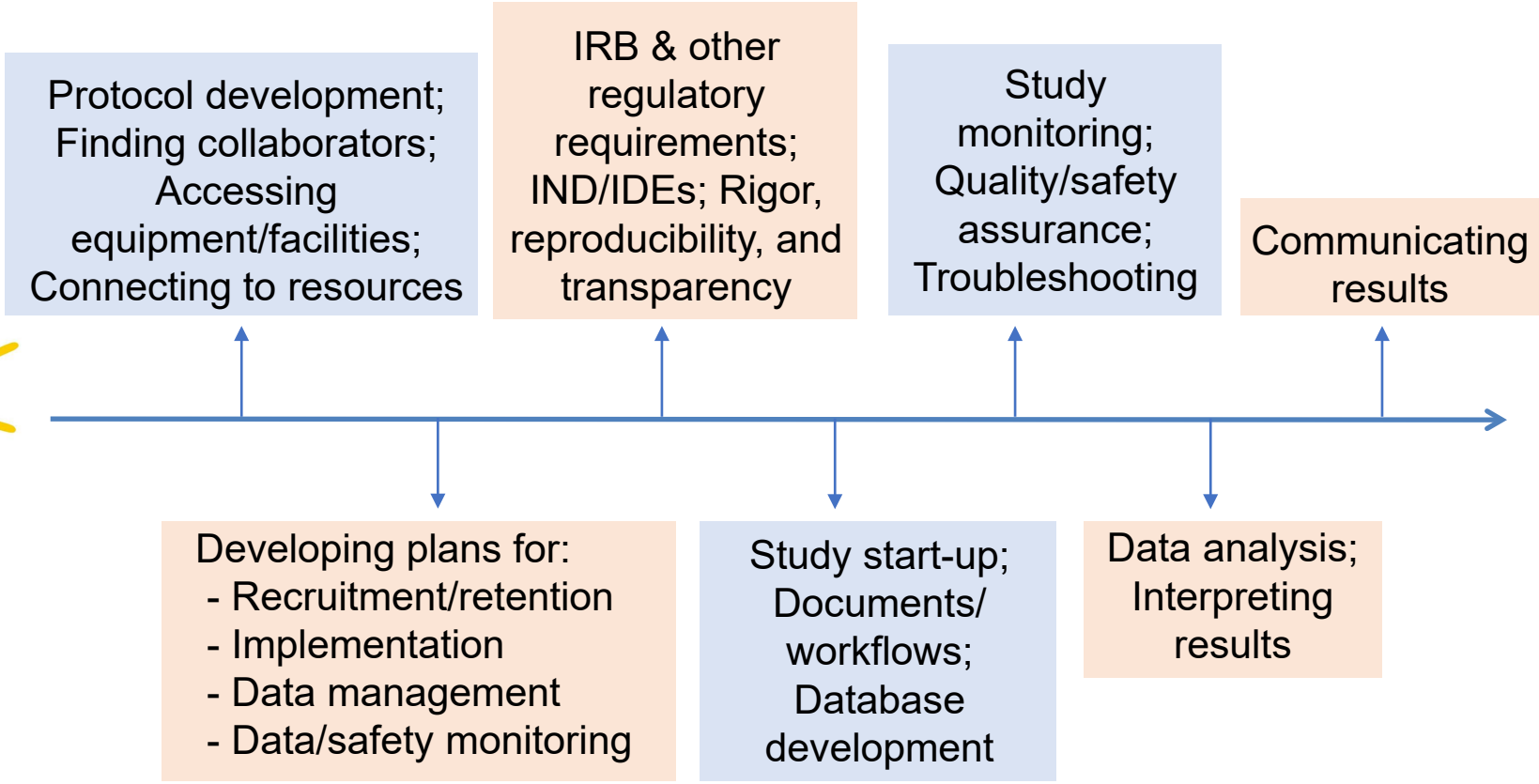
- Biostatistics
- Bioinformatics
- Investigational New Drug (IND) and Investigational Device Exemption (IDE)
- Quality Assurance/Quality Improvement (QA/QI)

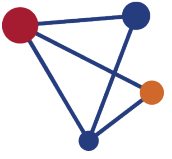
Free for clinical and translational researchers in the Harvard community



**HARVARD
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Connector Consultation and Support





**HARVARD
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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)

Request System:

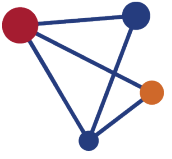
- Request consult or support
- Ask a question or for help locating resources

**Central point
of contact /
triage**

Sets up
consults
appointments

Directs PI to right
person or form to
access needed
services

Answers
questions



**HARVARD
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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)

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.

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.



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™



**HARVARD
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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/



MASSACHUSETTS
GENERAL HOSPITAL



BRIGHAM AND
WOMEN'S HOSPITAL

Beth Israel Lahey Health



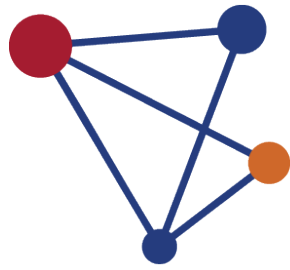
Beth Israel Deaconess Medical Center



**Boston
Children's
Hospital**

Until every child is well™





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Community Engagement and Diversity Inclusion



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Community-Engaged Research

This new online course aims to build the skills of researchers to develop trusting relationships and impactful research with the community and to prepare community partners to engage in health research.

Participants may take modules in succession or individually.

Module 1

Describe the aims and key concepts of community-engaged research.

Module 2

Illustrate how to cultivate an effective collaboration between community partners and researchers.

Module 3

Identify how to incorporate community-engaged principles into research studies and practice settings.

Currently Running



**HARVARD
CATALYST**

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



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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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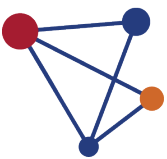
     

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HARVARD CATALYST

Events Calendar

Conference: Precision Psychiatry: Innovation to Implementation – September 29-30

September 29 – September 30, 2023

Conference: Precision Psychiatry: Innovation to Implementation. Virtual conference bringing together clinicians, researchers, trainees, students, investors, and industry leaders from across the globe to explore the latest advancements in Precision Psychiatry.

[See more](#)

BIostatISTICS

Biostatistics Short Course: An Introduction to the Analysis of Incomplete Data – October 6

October 6, 2023

Biostatistics Short Course: An Introduction to the Analysis of Incomplete Data. In-person short course led by Ofer Harel, PhD, University of Connecticut.

[See more](#)



Lecture: Primary Spine Care: An Initiative to Address the Extreme Health Burden of Spinal Care – October 10

October 10, 2023

Lecture: Primary Spine Care: An Initiative to Address the Extreme Health Burden of Spinal Care. Scott Haldeman will present an overview of The Global Spine Care Initiative (GSCI), convened by the World Spine Care group of charities, which included a literature review and a consensus of 68 clinicians and researchers from 24 countries.

[See more](#)

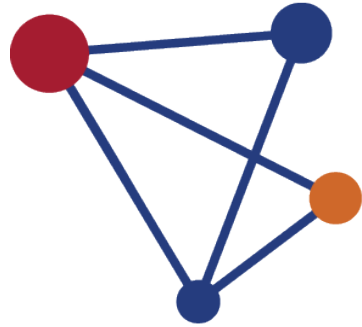
BIostatISTICS

Biostatistics Journal Club: Modeling and Joint Prediction of Semi-Competing Risks – October 11

October 11, 2023

Biostatistics Journal Club: Modeling and Joint Prediction of Semi-Competing Risks. Discussion led by Harrison Reeder, PhD, Massachusetts General Hospital.





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