THE BIG RED GROUP | Scholar Launch

Ivy Scholars Research
BootCamp

Learn with Researchers & professors from:

Stanford University | Columbia University IN THE CITY OF NEW YORK | MIT | Cornell University | PRINCETON UNIVERSITY

WHAT IS THE IVY SCHOLARS RESEARCH BOOTCAMP ?

Rigorous Academic Foundation and Innovative Approach

Designed to emulate the standards of prestigious research institutions worldwide, this intensive program combines the academic excellence of Ivy League traditions with the cutting-edge methodologies of leading global research entities.

Exploration of Research Fundamentals and Advanced Methodologies

Within this research bootcamp, participants immerse themselves in an in-depth exploration of fundamental research principles. Delving into diverse methodologies, the importance of data, and the integration of Artificial Intelligence for enhanced research efficiency, participants acquire essential skills and knowledge vital for navigating today's complex research landscape.

Start your Research Journey Today!

PROGRAM DETAILS

On Completion, students get a **Certificate of Achievement** from ScholarLaunch and the Ivy Learning Lab.

Opportunity to get an **LOR** from course intructors who are researchers at top institutions like Stanford, MIT and more!

Opportunity to **get published in an International Journal**.

📅 **29th Jul - 6th Aug 2024**
6:30 pm to 9:30 pm IST

📍 **Online**

👤 **Grades 8-12**

₹ **INR 40,000 + 18% GST**
INR 25,000 + 18%GST (Early Bird)

⏳ **Deadline :**
19th July 2024

HOW DOES THE IVY LEAGUE LOOK AT RESEARCH?

Students who did research were **4 times** more likely than the general pool to be accepted into a top university.

Know your
Ivy League
Course Intructors:

Dr Eaton

PhD, **MIT University**

Extensive teaching experience in Data Science, Engineering and Business

Dr Brown

PhD, **Columbia University**

Sociology with minors, **University of Pennsylvania**

Former Faculty Member, **Princeton University**

Dr Haque

PhD, **Toronto University**

Extensive teaching experience in corporate finance, investments,.

Dr Zhang

Computer Science & Engineering, **MIT**

Ex Amazon, IBM, Microsoft, and **Morgan Stanley**

Avi Hegland-Fisher

Colgate University & University of Pennsylvania Alum

Maya Gobert

Cornell University Alum

Founder: Leadership & Innovation Lab

Mr Culka

Ph.D. Candidate International Law, **Charles University**

Working at the Ministry of Justice of the Czech Republic

Dr. Norihiro

PhD, **Stanford University**

Background in Chemical Engineering, specific focus on Materials Science and R&D

Publish **your 1st Research Product!**

Get a chance to Publish your research paper in a top international journal upon program completion. Gain global recognition for your groundbreaking work.

Introduction & Team Assignment Research Fundamentals:

- Defining research, understanding the process, exploring types

Team Activity

Activity 1:

- Teams outline steps of a research project.
- Debrief: Share and discuss steps and insights.

Activity 2:

- Teams brainstorm research methods for a topic.
- Debrief: Present and evaluate ideas.

Introduction & Team Assignment on Data

- Defining Data & understanding Data collection methods.

Team Activity

Work in teams to design a plan/template for the assigned data collection method.

- Survey: Design survey questions to serve the purpose effectively.
- Interview: Structure interview questions and format.

**THE CURRICULUM
DAY 1**

**THE CURRICULUM
DAY 2**

Ethics:

Understanding, navigating, and addressing plagiarism

- What are research ethics?
- How to navigate ethics in research?

Activity 1:

- Teamwork to identify ethical concerns in a case study

Funding & Publication

Explores research project funding mechanisms and dissemination of results, including major journals and publication standards.

Team Activity:

Funding simulation Round.
- Teams allocate set funds to research projects.
- Discuss and justify allocation decisions.

Team presentations:
Discuss rationale behind funding decisions

STEM Track

Topic: Artificial Intelligence & Design

**Topic: Computer Science
& Applied Mathematics**

Social Sciences Track

Topic: Finance, Economics and Business

**Topic: Sociology & Social PsychologySociology &
Social Psychology**

Activities

- Teams choose a topic and generate research questions.

- Teams exchange questions and design methodologies to investigate the new set of questions they receive

- Team-based exploration of the intersection between Topic 1 and 2.

- Brainstorm research directions incorporating both areas.

THE CURRICULUM
DAY 3

STEM
Topic: Hard Sciences & Engineering

- In teams: Select an area of topic that is of interest, design some research questions in said area.

- Reflect and brainstorm some potential ethical concerns in selected areas of research.

- Sharing of outcomes

Topic: Data Science & Applications

Social Sciences Track

Topic: Law and Politics

- In teams: Select an area of topic that is of interest, design some research questions in said area.
- Reflect and brainstorm some potential ethical concerns in selected areas of research.
- Sharing of outcomes

Topic: International Relations and Political Science

Activities:

- In Teams: Select an area of topic that is of interest, design some research questions in said area.

- Brainstorm how data would be collected in selected research area.

- Sharing of outcomes

THE CURRICULUM
DAY 4

Within separate STEM and Social Sciences Tracks

Building on the work of others

- Sharing of successful research projects in fields covered during Bootcamp, separated into STEM and Social Sciences Tracks

- After each sharing, breakout rooms for instructor-led, discussion-centric critique of each research project

- Individual work: Reflect on how critique from various breakout sessions could apply to own work

THE CURRICULUM
DAY 5

<u>Within separate STEM and Social Sciences Tracks</u>

Activity
Peer Review Panels

- Students randomly review peers' research papers

- Breakout rooms: Each reviewer will provide personalized feedback to author, along with suggestions for improvements

Activity
Individual work

- Synthesize individual research and feedback.

- Create a concise presentation or booth to attract funding, utilizing formats like PowerPoint, a one-pager, or Canva graphic, to effectively communicate the research project's value proposition.

Activity
Funding simulation

- Students receive a fixed amount of funds and decide how to allocate them among presented research projects.

- The research project(s) that attract the highest funding earn merit.

THE CURRICULUM   DAY 6

Within separate STEM and Social Sciences Tracks

Presentation of research work:

- Top 10 research projects from each Track, selected by instructors, will present to the cohort.

- Presentations will include live feedback from instructors and open Q&A from fellow students.

To the votes

- All projects, regardless of instructor selection, are eligible for participation.

- Students will vote in separate Tracks to **determine winners across categories like Best Research Idea, Methodology, Use of Data, and Intersectionality Demonstration**.

THE CURRICULUM
DAY 7

WHY SHOULD YOU PARTICIPATE?

ACHIEVE REAL RESULTS

By the end of the bootcamp, **you'll have a research project that's not only completed but also reviewed by peers and critiqued by instructors**, ensuring quality and depth.

SPOTLIGHT YOUR WORK

Stand out with the **chance to have your top-notch research showcased on an international platform** and considered for a special edition of our Scholarly Review Showcase.

BUILD YOUR RESEARCH NETWORK

Dive into curated networking opportunities to form research teams and **connect with potential co-authors**, paving the way for ongoing collaboration and project development.
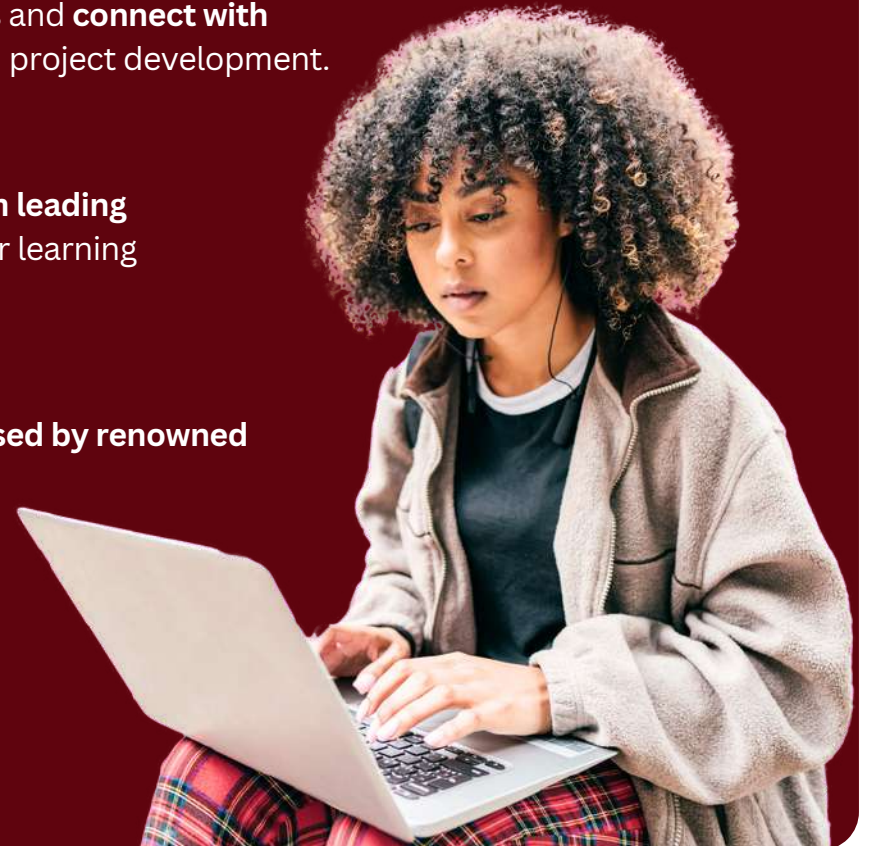
LEARN FROM THE BEST

Gain **invaluable insights from professors and industry experts from leading institutions like Stanford, MIT, Cornell, and UPenn**, enhancing your learning with real-world experience.

EARN RECOGNIZED CREDENTIAL

Complete the bootcamp and receive a **Certificate of Award, endorsed by renowned researchers**, as a testament to your hard work and new expertise.

OPEN DOORS TO FUTURE OPPORTUNITIES

Excel in your final evaluation and **you could secure a Letter of Recommendation from our esteemed professors and experts**, or even from the Director of Student Innovation, boosting your academic and professional journey.

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Apply NOW!

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