

Research Skills Academy

July 6 to July 23, 2026

<https://computinginresearch.org/research-skills-academy/>

```
def calculate_path_length(city_list):  
    """Calculates the full length of a path through a list of cities,  
    including the return home from the last city on the list."""  
    total_length = 0  
    for i in range(len(city_list)-1): # iterate up to the second-last city  
        c1 = city_list[i]  
        c2 = city_list[i+1]  
        length = distance(c1, c2)  
        total_length += length  
    return total_length + distance(city_list[-1], city_list[0])
```

Institute for Computing in Research

“Wide variety of topics changed how I viewed not only research but learning and culture in general [...]”

“This course changed my view of life... Of course writing and typesetting are important. But it was the storytelling, the discussions and lectures on ethics, what science is really like, and how biases work, that changed my values.”

WHAT WE OFFER

The Academy is a free program which prepares motivated high school (and very motivated middle school) students for research jobs. With the rapid shift in intellectual work caused by generative AI, critical thinking and research readiness are even more important.

IMMERSION: virtual, 3 weeks, 4 days/week, with 5 hours of tutorials, lectures, and work on projects. Tutorials and lectures are given by world-class researchers as well as driven early career scholars. Much of the work is project-based: students work individually or in small self-formed groups on their area of interest.

WHAT SKILLS DO WE TRAIN IN?

RESEARCH TECHNIQUE - information assimilation, data analysis, visualization, ...

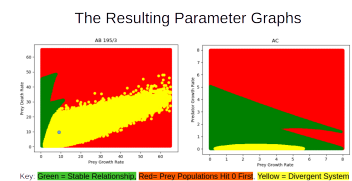
TOOLS - remove barriers between your ideas and the final product.

COLLABORATION - students support each other and find help in the Academy.

SOFT SKILLS - communication, time management, project management, ...

CITIZENSHIP - understand under-representation, digital citizenship, software freedom, open source.

WRITING CONTENT - based on cognitive factors: essays, college and grant applications, proposals, research articles. . .



ACADEMIC AWARENESS - career presentations on jobs and research in in every major field.

GIVING PRESENTATIONS - most presentations are lousy. How can we do better?

SPECIFICITY: students list top areas of interest, and we pool guest-scientist and lecturer knowledge to prepare presentations on that topic.

OUTCOME: achieve a level of independence in your work, and learn several skills; demonstrate it in final product and presentation.

Contact - email: info@computinginresearch.org
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Read more and sign up at: <https://computinginresearch.org/research-skills-academy/>

