Encouraging Young Women in Computer Programming

A professional development workshop

*"Science and technology needs its leaders to be fully committed to diversity and
in frank understanding of the social-justice underpinnings." — Lorena Barba*

Monday 2021-06-07, Tuesday 2021-06-08

*The Institute for Computing in Research
The Computer Science Alliance*

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```python
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)
```

The Institute for Computing in Research and the Computer Science Alliance will host a professional development workshop, aimed at CTE teachers in Santa Fe. This online course will be taught by:

Allison Randal University of Cambridge, software developer, open source strategist, and author.

Leina Gries Pomona college, winner of the LANL Foundation gold scholarship.

Mark Galassi Astrophysicist at Los Alamos National Laboratory.

> *Our goal is to solve the problem of the "grades 4-12 gender gap in technology" in Santa Fe.*

We start out discussing the current state of research on the blockers for women in computational fields, and then present the Institute's recommendations and its offer to work with teachers to address the gender gap.

This workshop is free for teachers, but space is limited so please sign up by email soon! Individual make-up is possible if you have to miss some of the time slots.

Session 1 Monday 2021-06-07 — 3pm-5:30pm:

15:00 Gries "Introduction: why the platitudes on gender in tech are not enough".

15:45 discussion

16:00 Galassi "The scholarship behind gender exclusion".

Session 2 Tuesday 2021-06-08 — 3pm-5:30pm:

15:00 Randal "Experiences of women in computing: how current approaches have stalled".

15:45 discussion

16:00 Galassi "Gems to be found in the *better allies* movement".

16:45 Gries and Galassi "The Institute for Computing in Research's approach and services".