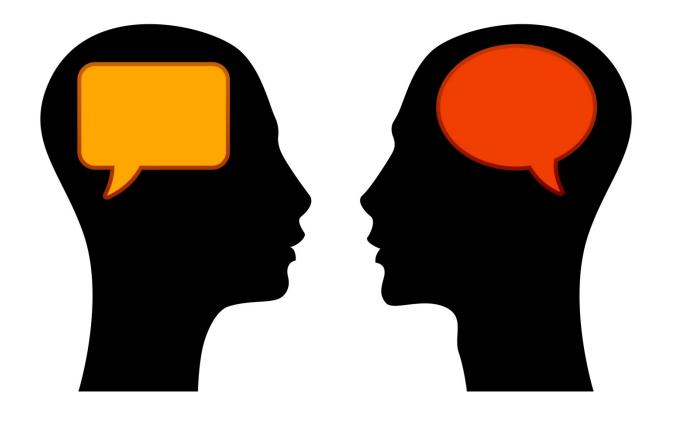




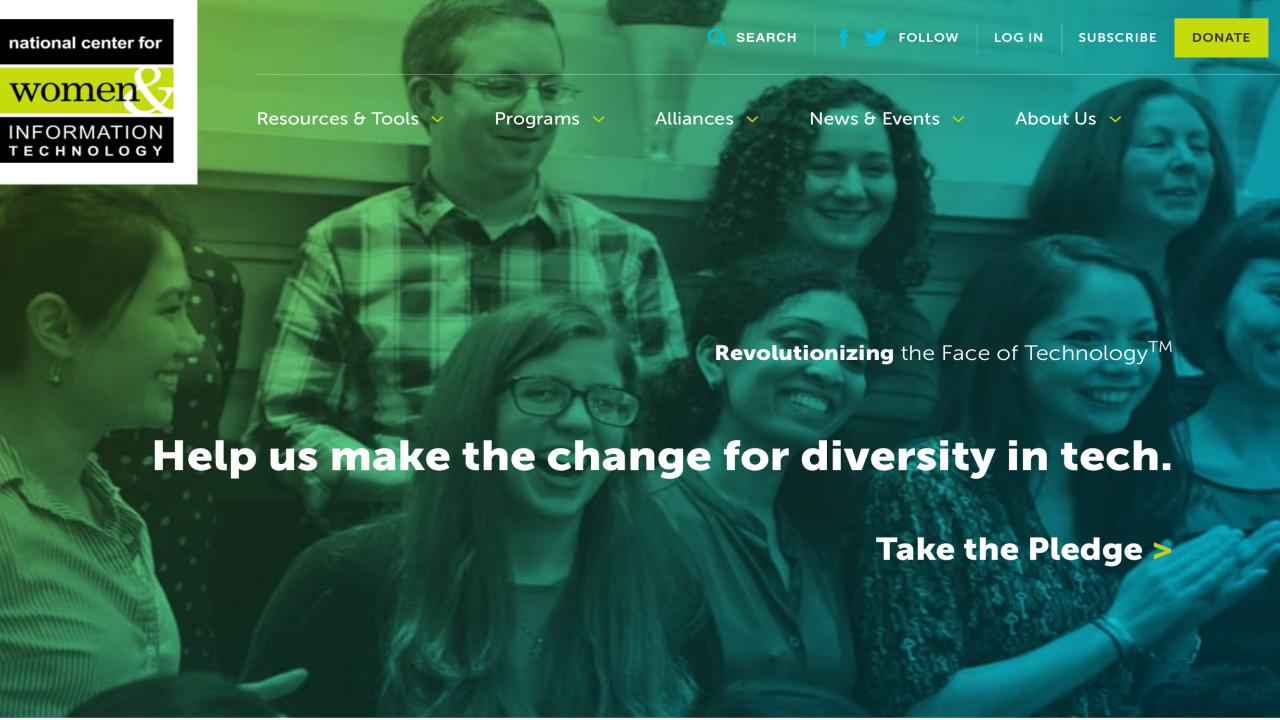


Resources

Leslie Cintron, Ph.D.
Research Scientist
University of Virginia



ncwit.org





NCWIT provides free, high-quality, research-based resources













NCWIT resources can help you:

- Inform others about the importance of CS
- Inform others about the need for diversity in CS
- Recruit and retain diverse students in your CS classes
- Find engaging and inclusive class materials

www.ncwit.org



You, (or your child or student) should consider pursuing a degree in computing because:



Computing pays well

(U.S. Bureau of Labor Statistics, 2014)





Top 10 Ways

- Families can Encourage Girls' Interest in Computing (also in Spanish)
- To Increase Girls' Participation in Computing Competitions
- Of Recruiting High School Women into Your Computing Classes

To Engage Under-Represented Students in Computing











In-A-Box – everything you need to know to get started with:

- Pair Programming
- E-Textiles
- CS Unplugged
- Agent Cubes Introducing Computing through Game Design







Promising Practices and Case Studies

Sample topics:

- Evaluating Software for Gender Bias
- Inclusive Strategies for Teaching Students with Disabilities
- Design Physical Space with Broad Appeal
- Change the Gender Composition of High School CS courses
- Encouragement Works
- Pair Programming
- Stereotype threat
- Scratch
- Alice
- CS Unplugged





Latinas & Tecnología de la Información

Resources
Profiles of Latinas in Tech
Videos
Links



PERFILES



Yolián Amaro-Rivera

Estudios de licenciatura, Ingeniería en computación

www.ncwit.org/latinasinformation-technology







An online collection of CS1/CS2 course materials to help retain and recruit diverse students



www.engage-csedu.org



What's special about EngageCSEdu?

- 1500+ peer-reviewed course materials... and growing
- Easy to browse and search
- All materials employ research-based Engagement Practices
- Linked to NCWIT resources and research





Course Materials include:

Projects

Homework Assignments

Tutorials

Labs

Assessments

Lecture Notes

Exercises





Search for materials by:

Course Level CS1, CS2

Material Type

Assessment, assignment, lecture slides, lab, etc...

Programming Language

C, C#, C++, Java, JavaScript, Python, etc...

Engagement Practices

Meaningful and relevant context,

Address misconceptions about CS,

Effective encouragement, etc...

Counselors for Computing (C4C)

- NCWIT program providing PD for Counselors
- provides information & resources they can use to support ALL students as they explore computer science education and careers
- order kits for your school counselors

ncwit.org/c4c









Counselors for Computing Is:

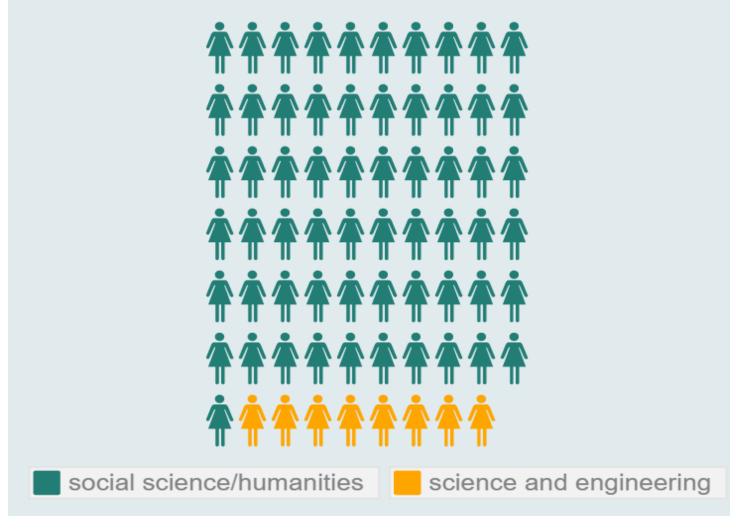
1. Staff Development for professional school counselors

Programs from full-day workshops to 1-hour webinars to conference sessions

Presented with partners from industry, universities, school districts, CS and counselor communities

2. Resources

Counselor undergrad degrees earned



N: 69

Counselor background likely affects readiness to guide toward STEM, Computer Science

What we know about counselors (those who find their way to C4C anyway)

Humanitarian. Caring people who likely came to counseling through a liberal arts/humanities pathway.

Juggler. Lots of competing demands.

Seasonal. Some times are better than others.

Energizer bunnies. If you find the switch.

Counselors for Computing can...



Partner for staff development to support high school CS programs



- new courses
- existing
- K-8 pipeline

Provide materials to support CS program development



- C4C-in-a-Box
- C4C Kits
- And...?

Connect you with



- Counselor communities
- NCWIT network

Advise about



- Counselor experience
- College preparation

Contact: <u>c4c@ncwit.org</u>

Aspirations in Computing



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oin About Community Opportunities News

NCWIT Aspirations in Computing

Revolutionizing the Face of Technology





Apple and NCWIT present a series of personal essays and stories of innovation.



aspirations.org/innovatortoinnovator

Suppo



Thank you!

