

GirlsCodingWithGirls

Summary



GirlsCodingWithGirls is a program in which Warren Hills High School girls teach elementary and middle school girls to program and encourage them to pursue STEM careers. A typical session consists of six classes each lasting two hours. Each session concludes with a showcase for the parents in which the girls share their games. GCWG was started with a NCWIT grant won by Adesola Sanusi in 2014

GCWG is the national winner of the 2018 Champions of Computer Science award from Code.org/CSTA.

Sessions:

Spring 2014	16 participants	8 mentors	Scratch
Fall 2014	22 participants	8 mentors	Scratch
Spring 2015	17 participants	8 mentors	Scratch
Fall 2015	24 participants	8 mentors	App Inventor
Spring 2016 - I	20 participants	8 mentors	Scratch
Spring 2016 - II	20 participants	10 mentors	App Inventors
Fall 2016	27 participants	9 mentors	Scratch
Fall 2017	43 participants	14 mentors	Scratch and Gamemaker
Spring 2018	34 participants	14 mentors	Scratch
Fall 2018	36 participants	16 mentors	Scratch and Microbit
Spring 2019	37 participants	19 mentors	Scratch
Fall 2019	29 participants	16 mentors	Scratch and Microbit
Spring 2020	37 participants	16 mentors	Scratch and Microbit
Spring 2021	35 participants	15 mentors	MakeCode

375 elementary and middle school girls have put in over 4000 hours of coding over the last 6 years plus hundreds of additional hours on their own at home

Current Mentors (number of sessions as mentor in parentheses)

Seniors: Emma Mele (7), Sarah Korczukowski (7), Frances Ten Eyck (6), Julia Fox(5), Julia Monico (4), Ashley Watt (4), Sophie Martin (3), Isabella Terick (2), Emily Mathew (2)

Juniors: Weldon (5), Dimitra Georgoutsos (2), Disha Patel (1), Taryn Faccenda (1), Mabintoe Fofana (1), Precious Thiirah (1),

Sophomores: Gabby Fama(3), Emma Werbin (1), Julia Bisse (1), Reilyn Dominguez (1)

CS@WH statistics

40% females in Warren Hills CS classes compared to the national average of 29%

The 9 seniors have taken 29 computer science classes in high school.

4 of the senior mentors have been involved with GCWG since the 5th grade

Emma M, Sarah K, Julia F and Ashley W

Past Mentors - all 33 pursued STEM in college

Adesola Sanusi	Harvard – Computer Science / Google
Nikki Schott	TCNJ – Biomedical Engineering / Vet school
Joelle Dowling	Stanford and George Washington U– Electrical Engineering
Emma Fink	Delaware – Neuroscience / Physician Assistant
Annie Topoleski	Stevens Institute of Tech– Computer Science / Protiviti - IT
Emily Rother	Penn State – Computer Science / Lockheed Martin
Julia Arenza	Pitt – Mechanical Engineering
Katrina Martucci	Cornell – Electrical Engineering / Google
Nicole Duda	Hofstra – Biomedical Engineering / InVitro Cell Research
Jenna Ischinger	Purdue – Biomedical Engineering
Jackie Farkas	NJIT – Mechanical Engineering/Naval Air Warfare Center
Sarah Fontana	TCNJ – Mechanical Engineering
Allyson Schmieder	RVCC - STEM
Sarah Wiessler	Stevens Institute of Tech – Software Engineering
Vanessa Thomas	Maryland – Computer Science
Maria Martucci	Cornell – Electrical Engineering / Microsoft Intern
Krupa Tishbi	TCNJ – Electrical Engineering
Vivian Beaudoin	Carnegie Mellon – Computer Engineering
Brianna Garland	Stevens Institute of Tech – Computer Engineering
Alyssa Appleby	Stevens Institute of Tech – Mechanical Engineering
Samantha Monico	Rensselaer Polytech– Aerospace Engineering
Shannon Sloan	Rochester Institute of Tech – Software Engineering / Microsoft Intern
Emily Brundage	University of South Florida – Industrial Engineering
Gigi Ali	NorthEastern – Computer Science/Biology
Tamia Freeman	Rutgers – Computer Science/Biology
Madison Hamas	Georgia University – Computer Science
Georgina Tamburro	Rutgers – Computer/Electrical Engineering
Joyce Lin	Stevens Institute of Tech – Mechanical Engineering
Rachel Fitz	Maryland – Mechanical Engineering
Nicole Kilhullen	Maine – Computer Science
Nirvani Mangru	RVCC - Engineering
Kayla Weldon	Rowen – Computer Science
Jamie Rice	Vermont – Animal Science

NCWIT Aspirations Awards – for women in computing

NJ Winners:

Adesola Sanusi	2014
Annie Topoleski	2015
Katarina Martucci	2016
Sarah Fontana	2017
Jackie Farkas	2017
Maria Martucci	2017, 2018
Vivian Beaudoin	2017, 2018
Krupa Tishbi	2018
Tamia Freeman	2019
Emma Mele	2020, 2021
Rachel Fitz	2020
Nicole Kilhullen	2020
Sarah Korczukowski	2020, 2021
Joyce Lin	2020

National Runner Up:

Maria Martucci	2017
Vivian Beaudoin	2018
Tamia Freeman	2019

NJ Runner Up:

Katarina Martucci	2015
Sarah Fontana	2015, 2016
Jackie Farkas	2016
Brianna Garland	2018
Samantha Monico	2018
Shannon Sloan	2018
Emma Mele	2019
Madison Hamas	2019
Jada Evans	2019
Gigi Ali	2019
Emily Brundage	2019
Nirvani Mangru	2020
Olivia Thomas	2021

NJ Rising Stars:

Sarah Korczukowski	2019
Joyce Lin	2019
Rachel Fitz	2019
Julia Fox	2019
Jenna Weldon	2020

National Certificate of Distinction

Jessica Howley	2020
Kayla Weldon	2020
Kaitlyn Gaston	2020
Ashley Watt	2020
Julia Monico	2020
Gabby Fama	2021
Sophie Martin	2021
Emma Sloan	2021
Amy Twohig	2021

NJ Educator Award:

Daryl Detrick	2016
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Warren Hills is in the top 3 in New Jersey based on NCWIT award winners over the last 7 years and top 3 in New Jersey based on participants in the GirlsGo cyber competition from 2017-2020

