Annual Report
2019–2020
Letter From Our Executive Director

To Our CSTA Community,

As I often say, teaching is hard, and teaching computer science is even harder. Well, then I guess teaching computer science in 2020 is harderer.

In all seriousness, the last six months brought challenges I never could have imagined, and as always, teachers responded with passion, creative problem solving, and dedication to their students. It’s truly inspiring to see the many ways teachers have risen to the moment, and at CSTA we’re proud of how we’ve adjusted to continue supporting and empowering CS teachers. Starting with pivoting our annual conference to an all-virtual event that nearly tripled attendance while increasing attendee satisfaction, we’ve been exploring new ways to meet our community where they need it most. Our chapters and members have been at the forefront of this work, with chapters holding over 117 virtual PD events since the start of the pandemic and our Equity Fellows ensuring that addressing racism in CS education remains core to the work of the organization.

This year highlighted the oft-overlooked expectations that teachers face to be counselors, mentors, IT troubleshooters, advocates for their students, the consistent friendly face their students can count on, as well as continuing to be subject matter experts and provide skilled instruction even in the face of unprecedented challenges. Not surprisingly, teachers rose to the expectations. It’s clear that as we all navigate the year ahead we need to recognize and value the expertise that teachers bring to the work they do. Here at CSTA, we’re committed to creating space for teachers to learn with their peers and support their career-long growth, beyond a single hour, day, or week of professional development. CSTA will continue to be the voice of computer science teachers.

Thank you to our partners that make this work possible, especially our Premier Partner Microsoft, and our Strategic Partners Google and ACM. Most importantly, thank you to our incredible members for all you do to support students. Your work is essential, and we’re so proud of the impact you have on the world.

Jake Baskin, CSTA Executive Director
Investing in CSTA Chapter Growth, Success and Leadership

CSTA’s Chapters are the heartbeat of the organization — and that heartbeat has never been stronger. Thanks to the support of CSTA+ membership and our partners, we’ve seen our chapters continue to make strides forward, despite the challenges associated with COVID-19.

These chapters, under the leadership of 400 chapter leaders who dedicated their time and talents to support their local CS community, remained active during this time by:

- Holding 389 chapter meetings and PD events before COVID
- Holding 117 virtual meetings and PD events in response to COVID
- Ensuring over 2,800 members received PD, serving an estimated 70,000+ students

With the onset of COVID-19, we advised chapters to stop holding in-person events. Many of our chapters taking advantage of the chapter grant program were also forced to put their events on hold; however, three chapters were able to get their events in, under the wire. We awarded CSTA South Carolina a major PD grant for its statewide virtual summer CS PD Week. In total CSTA awarded $62,466 in grants to chapters over the program year.

“I am elated that I am a part of an amazing team of like-minded professionals. And a big thank you for your encouragement and support as always.”

**JULY 2020 CHAPTER STATUS**
- Total Chapters: **92**
- Total Volunteer Chapter Leaders: **450**
- New Websites Launched: **22**
- Events Held: **506**
- Total PD Weeks: **42**
- Grants Awarded: **$62,466**

**2020 CHAPTER LEADERSHIP SUMMIT AT A GLANCE**
- Chapter Leaders in Attendance: **304**
- Completed Chapter Goals: **78%**
- Left With Implementable Ideas: **100%**

**JULY 2019 CHAPTER STATUS**
- Total Chapters: **78**
- New Websites Launched: **21**
- Events Held: **275**
- Grants Awarded: **$61,202**

**2019 CHAPTER LEADERSHIP SUMMIT AT A GLANCE**
- Chapter Leaders in Attendance: **63**
- Completed Chapter Goals: **71%**
- Left With Implementable Ideas: **100%**
CSTA’s Annual Conference Continues Massive Growth

2018
Attendees: 746
Scholarships: 117
Exhibitors and sponsors: 60
Satisfaction: 89%

THE PROGRAM
4 General Sessions
22 Workshops
6 Birds of a Feathers
53 Sessions

2019
Attendees: 1,014
Scholarships: 233
Exhibitors and sponsors: 65
Satisfaction: 93%

THE PROGRAM
4 General Sessions
20 Workshops
7 Birds of a Feathers
51 Sessions

2020
Total Registered Attendees: 2,908
Scholarships: 844
Exhibitors and sponsors: 47
Satisfaction: 98.5%

THE PROGRAM
4 General Sessions
28 Workshops
11 Birds of a Feathers
94 Sessions
20 Posters
210 Presenters

“Attending the CSTA virtual conference as a first-year attendee was amazing and invigorating. Not only does it help to know we are all in this crazy situation together, but it helps to know we have so many resources and people willing to help us.”

— CSTA 2020 Attendee
Nurturing a Growing Community

In July 2018, CSTA+ membership launched with 400 new members joining on day one. As of July 2020, the community has grown to 3,561 members. Thanks to the support of our partners, including Pluralsight One, ACM, and We Teach_CS, CSTA+ members receive benefits they can’t find anywhere else.

New this year, we’ve added a library of CSTA event content exclusively available to CSTA+ members. Video recordings of all 2020 Conference sessions and slide decks and summaries from the 2019 Conference are now available on-demand, so you can easily revisit a great idea or stop in on the session you missed last year.

RETENTION AND DEVELOPMENT OF CSTA+ BENEFITS
CSTA is focused on growing awareness of and building upon our CSTA+ membership benefits package. As a result, we’ve onboarded new benefits providers, hosted webinars on these benefits, and have provided more information to help members take advantage of all of their benefits. As we continue to move forward with the expansion of the CSTA+ benefits package, we will continually look for feedback from current, prior, and potential members to offer a supportive and valuable membership experience.

THANK YOU TO OUR CURRENT CSTA+ BENEFIT PARTNERS
ACM
Birdbrain Technologies
Chrobiotics
CompuScholar
Nearpod
Pluralsight One
Sphero
The College of St. Scholastica
We Teach_CS
Wonder Workshop

CSTA+ MEMBERS BY PROFESSIONAL ROLE

K-12 Teacher
2,726
Nonprofit
67
District Administrator
51
Corporate
46
Higher Education Faculty
73
State Department of Education
11
School Administrator
10
Preservice Teacher
7
Undisclosed
947
Other
47
District Administrator
51
Corporate
46
Higher Education Faculty
73
State Department of Education
11
School Administrator
10
Preservice Teacher
7
Undisclosed
947
Other
47
CSTA+ MEMBERSHIP
FROM JULY 2018 TO JULY 2020

Month/Year

CSTA+ Members

- Jul 18
- Aug 18
- Sep 18
- Oct 18
- Nov 18
- Dec 18
- Jan 19
- Feb 19
- Mar 19
- Apr 19
- May 19
- Jun 19
- Jul 19
- Aug 19
- Sep 19
- Oct 19
- Nov 19
- Dec 19
- Jan 20
- Feb 20
- Mar 20
- Apr 20
- May 20
- Jun 20
- Jul 20

- Jul 20
In July 2019, CSTA launched its Equity Fellowship, a selective, year-long program designed to develop leadership in equitable teaching practices and advocacy. Fellows created short flash talks, several of which were incorporated into the keynote sessions at the CSTA conference. See all of the videos at the bottom of the Equity Fellowship webpage.

The fellows created projects throughout the course of the year, one to highlight is Todd and Cindy’s Create Equity in CS Education website. They synthesized seven key themes for how to promote equity in K-12 CS education based on countless interviews and discussions with Equity Fellows and other leaders. Their website provides quotes, descriptions, strategies, and resources for each of these themes.

“"My entire job is about building relationships with students, regardless of their access to resources, regardless of their exposure to computer science topics. If you’re going to say “no” to computer science, say “no” because you’re not interested, not “no” because you don’t know.”

— Charity Freeman, 2019–20 CSTA Equity Fellow
CSTA Expands Computer Science Honor Society Program

In the fall of 2019, CSTA took the CS Honor Society national! CSTA+ members have the opportunity to become an advisor to create a program to promote computer science by honoring academic excellence and a focus on service.

In its first year, over 155 societies were formed, with 172 advisors reaching more than 4,000 students across the United States. Throughout the spring of 2020, we have seen societies pivot to virtual events with online meetings, inductions, and graduation ceremonies, and students looking for ways to give back to their communities in times of need.

Core Values

- **Equity**: A realization that any student has the potential to enroll, to grow, and to excel in computing.
- **Service**: Empowering members to become ambassadors of the computer science discipline, helping underscore its importance as a mainstay in the school and community.
- **Excellence**: A commitment to promoting outstanding scholarship in computer science coursework.

In its first year, over 155 societies were formed, with 172 advisors reaching more than 4,000 students across the United States. Throughout the spring of 2020, we have seen societies pivot to virtual events with online meetings, inductions, and graduation ceremonies, and students looking for ways to give back to their communities in times of need.
The CSTA Standards for CS Teachers are designed to provide clear guidance around effective and equitable CS instruction in support of rigorous CS education for all K-12 students. The purpose is to explain what CS teachers should know and be able to do and to establish benchmarks for professional learning.

CSTA published the standards during CSEdWeek in December 2019. Since then, five teams have been working to create a set of resources targeted at specific audiences that will support the implementation of these standards. We published the first set of these resources during the CSTA Conference.

- Reflective Teachers: self-assessment checklist and roadmap for professional learning, to help teachers set prioritized goals for their ongoing professional development
- Inclusive Teaching: synthesis of three interrelated pedagogies: culturally relevant pedagogy (CRP), universal design for learning (UDL), and translanguaging
- Guidance for State & School Leaders: recommendations for how state and school leaders can each support K-12 CS education and the Standards and a classroom evidence (look-for) tool
- Guidance for Schools of Education: case studies, field experiences, and activities exemplifying how colleges and schools of education can create computer science programs using the Standards
- Guidance for PD Providers: rubrics for PD providers to self-assess how well their programs align with the Standards and key principles of effective PD; districts, schools, and organizations may use these rubrics to assess the quality of PD programs they are interested in pursuing
- K-12 CS Education Glossary: a searchable glossary (work in progress) that includes definitions of terms used in the CSTA K-12 Computer Science Standards, CSTA Standards for Computer Science Teachers, and K-12 Computer Science Framework, plus other terms relevant from the fields of education and computer science
Awarding Excellence in Computer Science

CS TEACHING EXCELLENCE AWARDS

<table>
<thead>
<tr>
<th>Year</th>
<th>2019–2020</th>
<th>Honorable Mentions</th>
<th>2018–2019</th>
<th>Honorable Mentions</th>
<th>2017–2018</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Maria Camarena</td>
<td>Elizabeth A. Dierker</td>
<td>Nimmni Arunachalam</td>
<td>Michelle G. Lee</td>
<td>Sandra Czajka</td>
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<tr>
<td></td>
<td>Daryl R. Detrick</td>
<td>Jennifer Jones</td>
<td>Michelle Cannon</td>
<td>Lanna Mack</td>
<td>Martin Fish</td>
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<tr>
<td></td>
<td>Vivienne Forrester</td>
<td>Carolyn A. Petite</td>
<td>Elaine Griggs</td>
<td>Andrea Salas</td>
<td>Bobby Oommen</td>
</tr>
<tr>
<td></td>
<td>Mary Heishman</td>
<td>Brian Downing Smith</td>
<td>Jonathan LoPorto</td>
<td>Kristie Steinlicht</td>
<td>Ryan Robidoux</td>
</tr>
<tr>
<td></td>
<td>Visa Thiagarajan</td>
<td>William Warren</td>
<td>Laura Ramirez</td>
<td>Leon Tynes</td>
<td>Dylan Ryder</td>
</tr>
</tbody>
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CHAMPIONS OF CS AWARD WINNERS

2019
- Axel Toro, Student Winner
- Laginne Walker, Teacher Winner
- Paul Foster, Administration Winner
- Mission Economic Development Corporation, Organization Winner
- Ardey Kell High School, AP Diversity Award Winner

2018
- Barb Schwamman, Superintendent of Osage and Riceville Schools

CSTA/ACM CUTLER-BELL PRIZE

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<tr>
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<tbody>
<tr>
<td></td>
<td>Kevin Meng</td>
<td>Naveen Durvasula</td>
<td>Srey Guha</td>
</tr>
<tr>
<td></td>
<td>Lillian Kay Petersen</td>
<td>Isha Puri</td>
<td>Amir Helmy</td>
</tr>
<tr>
<td></td>
<td>Axel S. Toro Vega</td>
<td>Eshika Saxena</td>
<td>Amy Jin</td>
</tr>
<tr>
<td></td>
<td>Zeyu Zhao</td>
<td>Varun Shenoy</td>
<td>Benjamin Spector &amp; Michael Truell</td>
</tr>
<tr>
<td></td>
<td>Raghav Ganeth, Honorable Mention</td>
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CSTA VOLUNTEER OF THE YEAR

<table>
<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>2019</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Pat Phillips</td>
<td>J. Philip East</td>
<td>Stephanie Hoeppner</td>
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</tbody>
</table>

2019–2020
CSTA
Financials

During FY2020 CSTA continued to rebuild the financial foundation necessary for the organization’s long-term success. Over the course of the year, we completed the separation of our financial operations from ACM, the last stage in the process of CSTA establishing itself as a standalone 501c3 organization.

We’ll be updating this section of the report following the completion of our FY2020 audit.
We’re in This Together!

CSTA is able to support K–12 educators thanks to our generous network of partners.

2019–2020 CSTA YEAR-ROUND PARTNERS

Premier Partner: Microsoft
Strategic Partners: Google, ACM

Partners:

2019–2020 CSTA ANNUAL CONFERENCE PARTNERS

Amazon Future Engineer, Apple, CME Group Foundation, Dominion Energy
Edhesive, Facebook, Github Education, Google, LEGO Education, Micron
Nearpod, Oracle Academy, University of Nebraska Omaha

Institutional Partners

A+ Computer Science
American Computer Science League
Apple
Auburn University
Beanz Magazine
Bootstrap
BootUp PD
BrainPOP
Center for STEM Education, The University of Texas at Austin
CodeHS
CodeVA
Code Spark
College of St. Scholastica
CompuScholar, Inc
Computational Thinkers
Couragion
Goodheart-Willcox Publisher
Happy Code
IBM
Make School
Michigan Technological University
Pace University
Pell City Schools
Popfizz Computer Science
Raspberry Pi Foundation
Stanford University – Computer Science Department
Stockton University
Tennessee Technical University
The University of Texas at Austin – Uteach CS
Trussville City Schools
UC San Diego
University of Alabama
University of DE
Villanova University
Western Carolina University
Wyoming Department of Education

“The Association for Computing Machinery is proud of our longstanding partnership with the Computer Science Teachers Association. As a leader in computer science education at all levels, ACM recognizes that supporting teachers is fundamental to quality computer science education in K-12 settings. With professional development opportunities, scholarships, and initiatives to increase the number of computer science teachers, CSTA is playing an indispensable role in shaping the future of our field.”

— Gabriele Kotsis, ACM President
CSTA would like to give a special thank you to our Board members who completed their terms during this time:

**July 2020**

Fred Martin  
Past CSTA Board Chair

Michelle Lagos  
At-Large Representative

Miles Berry  
International Representative

Anthony Owen  
State Department Representative

CSTA’s 2019–20 Board of Directors

Jennifer Rosato  
Board Chair

Fred Martin  
Past Board Chair

Miles Berry  
International Board Representative

Greg Bianchi  
Partner Representative

Dan Blier  
School District Representative

Amy Fox  
9–12 Representative

Hai Hong  
Partner Representative

Michelle Lagos  
At-Large Representative

Art Lopez  
9–12 Representative

Anthony Owen  
State Department Representative

Jane Prey  
ACM Representative

Vicky Sedgwick  
K–8 Representative

Bobby Schnabel  
Partner Representative

Kristeen Shabram  
K–8 Representative
CSTA Team

Jake Baskin
Executive Director

Sarah Johnson
Director of Operations

Bryan "BT" Twarek
Director of Education

LiYana Baker
Office Manager

Jason Bohrer
Chapter Relations Manager

Erika C. Burt
Education Innovation and Research (EIR) Project Manager

Stacy Jeziorowski
Marketing and Communications Manager

Michelle Lippoli
Event Manager

Emma Nyssen
Event Coordinator

Daniel Rosenstein
Manager of Philanthropy and Community Partnerships

Cate Sauer
Membership Experience Manager

Carlos Vazquez
Professional Learning Manager
THANK YOU
For Supporting
Computer Science Educators!