

Candidate for Chair

Tiffany Barnes
North Carolina State University, Raleigh, NC, USA

BIOGRAPHY

Academic Background:

Ph.D., North Carolina State University, 2003, Computer Science.

Professional Experience:

Professor, North Carolina State University, Raleigh, NC, USA, 2017 – Present;
Associate Professor, North Carolina State University, Raleigh, NC, USA, 2012 – 2017;
Associate Professor, University of North Carolina at Charlotte, NC, USA, 2010 – 2012.

Professional Interest:

Computer Science Education; Teacher Professional Development; Broadening Participation;
Computational Thinking; Artificial Intelligence in Education.

ACM Activities:

General Co-Chair, SIGCSE 2018 Symposium, 2017 – 2018;
Program Co-Chair, SIGCSE 2017 Symposium, 2016 – 2017;
At-Large Member, SIGCSE Board, 2010 – 2016.

Membership and Offices in Related Organizations:

Executive Board Member, International Artificial Intelligence in Education Society, 2016 – 2019;
Executive Board Member, International Educational Data Mining Society, 2008 – Present;
Co-Chair, IEEE Computer - STC Broadening Participation, 2015 – Present.

Awards Received:

NCWIT Undergraduate Research Mentoring Award, 2016;
AIED Best Student Paper Nominee, 2018;
ITiCSE Best Paper Nominee, 2017;
ITiCSE Best Paper Nominee, 2016.

STATEMENT

It is increasingly important to educate everyone in computing. This means we need advances in understanding how to teach computer science and computational thinking for all ages, from school children to people in the workforce to retirees. We also need to better understand how to achieve diversity, equity, and inclusion in computing. Diversity brings a larger talent pool, and one that more accurately reflects the needs of society and our workplaces. Inclusion means that we recognize people's differences and value what they bring to the table. Equity means that we

recognize that not everyone has had equal access to computing education, and we strive to correct that imbalance. SIGCSE plays a critical role in expanding access to and quality in computing education -- both in building and expanding the community of educators, but also in the research that can inform us how best to include and engage diverse populations, and what, how and when to teach computing. We also play a critical role in ensuring that ethics and responsibility are integrated into computing education at all levels, to build capacity to ensure the health of the internet and our society.

Candidate for Chair

Adrienne Decker
University at Buffalo, NY, USA

BIOGRAPHY

Academic Background:

Ph.D., University at Buffalo, 2007, Computer Science & Engineering.

Professional Experience:

Associate Professor, Department of Engineering Education, University at Buffalo, NY, USA, 2019 – Present;

Associate Professor, School of Interactive Games and Media, Rochester Institute of Technology, NY, USA, 2011 – 2019;

Teaching Associate Professor, Computer Science & Engineering, University at Buffalo, NY, USA, 2001 – 2011.

Professional Interest:

Computing Education; Effectiveness of pre-college computing activities; Introductory programming curriculum and teaching techniques; Broadening participation in computing and gaming; Evaluation and assessment.

ACM Activities:

Treasurer, SIGCSE, 2016 – Present;

Symposium Co-Chair SIGCSE 2015, 2014 – 2015;

Program Co-Chair SIGCSE 2014, 2013 – 2014.

Membership and Offices in Related Organizations:

Development Committee Co-Chair, AP Computer Science A, The College Board, 2018 – Present;

Advisory Board Member, The Alice Project, CMU, 2016 – Present;

Development Committee Member, AP Computer Science A, The College Board, 2015 – 2018.

Awards Received:

ACM Senior Member, 2016;

Best Paper, CCSC Eastern Conference, 2005;

Best Paper, CCSC Eastern Conference, 2003.

STATEMENT

We continue to see tremendous growth and change in our organization paralleling the rapidly changing landscape of computing education. I am grateful to have served the community as symposium co-chair (SIGCSE 2015) and SIGCSE Treasurer (currently), along with several other

appointments such as Technical Symposium Liaison, and chair of the committee overseeing travel awards to educators to attend our conferences. I am delighted to have contributed to growing our membership and conferences, expanding our global reach (including the addition of a new conference), and meeting the needs of the incoming wave of primary and secondary teachers who are turning to SIGCSE to help them better educate students. In each role, I have worked hard to shape programs that will engage each of you within the community and highlight your diversity and accomplishments while ensuring fiscal responsibility for our organization.

As your chair, I pledge to build upon the solid foundation of our first 50 years by further growing and expanding the SIGCSE community to better serve our students through the promotion of computing education research that moves into practice and through a diverse and supportive community of computing educators that includes those at all levels and around the globe.

Candidate for Chair

Judy Sheard
Monash University, Caulfield East, Australia

BIOGRAPHY

Academic Background:

Ph.D., Monash University, 2006, Computer Science Education.

Professional Experience:

Associate Professor, Monash University, Caulfield East, Australia, 2012 – Present;
Head of School, Monash University, Caulfield East, Australia, 2012 – 2017;
Senior Lecturer, Monash University, Caulfield East, Australia, 2003 – 2011.

Professional Interest:

Teaching and learning of programming; Student engagement and learning behavior;
Learning analytics; Computing education research methods; History of computing.

ACM Activities:

Vice-Chair, SIGCSE, 2016 – 2019;
Secretary, SIGCSE, 2013 – 2016;
Co-Chair, ICER, 2015 – 2017;
Working Group Co-Chair, ITiCSE, 2016.

Membership and Offices in Related Organizations:

Member, Australian Computer Society, 1995 – Present;
Co-Chair, Koli Calling International Conference on Computing Ed Research, 2015 – 2016;
Program Chair, Australasian Computing Education Conference, 2000.

Awards Received:

Best Paper Award, Australasian Computing Education Conference, 2016;
Best Paper Award, Australasian Computing Education Conference, 2014;
Highly Commended Paper Award, ITiCSE, 2013;
Vice Chancellor's Award for Team-based Educational Development, 2002.

STATEMENT

I would be honored to serve SIGCSE in the position of Chair. I have been an active and enthusiastic member of the SIGCSE community for over 20 years. My organizational ability and commitment to this community is evidenced through my roles as SIGCSE Vice-Chair and Secretary, Chair of ICER and leadership of ITiCSE Working Groups, doctoral consortia and the Australasian Chapter of SIGCSE. My scholarly activities in computing include

invited talks, development of computing education research methods courses, more than 160 peer-reviewed computing education publications and establishment of the Monash Museum of Computing History. As computing educators and researchers our community members are facing many challenges. In my role as Chair I would work with members to promote activities that would:

- further build the SIGCSE community, ensuring it has a diverse and international focus;
- support initiatives to increase student engagement and improve the student experience;
- encourage participation in computing education doctoral programs, thus ensuring the future of our community; and,
- build the capacity of computing education researchers, thus raising the standard and acceptance of computing education as a research discipline.

Candidate for Vice-Chair

Dennis Bouvier
Southern Illinois University Edwardsville, IL, USA

BIOGRAPHY

Academic Background:

Ph.D., University of Louisiana Lafayette, 1994, Computer Engineering.

Professional Experience:

Associate Professor, Southern Illinois University Edwardsville, IL, USA, 2017 – Present;
Chair and Associate Professor, Southern Illinois University Edwardsville, IL, USA,
2010 – 2017;

Assistant Professor, Southern Illinois University Edwardsville, IL, USA, 2006 – 2010.

Professional Interest:

Computing Education; Human-Computer Interaction.

ACM Activities:

ACM Member, 1988 – Present;

SIGCSE Member, 1997 – Present.

Membership and Offices in Related Organizations:

Conference Committee, 2019 ACM SIGCSE ITiCSE Conference, 2018 – Present;

Associate Program Chair, ACM SIGCSE ITiCSE Conference, 2017 – 2018.

Awards Received:

Best Paper Award SIGCSE Symposium, 2016;

Best Paper Award ICER Conference, 2009;

IEEE VAST Challenge Award, 2008.

STATEMENT

I began my ACM membership as a student. I attended my first SIGCSE Symposium in 1995. Since then, the SIGCSE conference and organization have been a home to me in many ways. I have attended ITiCSE and ICER conferences and served as a reviewer, associate program chair, and conference committee member several times.

If elected as Vice-Chair, I will work to continue the growth and quality of the organization and the conferences it organizes.

Candidate for Vice-Chair

Dan Garcia
University of California, Berkeley, CA, USA

BIOGRAPHY

Academic Background:

Ph.D., UC Berkeley, 2000, Computer Science.

Professional Experience:

Teaching Professor, University of California, Berkeley, USA, CA, 2012 – Present;
Associate Teaching Professor, University of California, Berkeley, CA, USA, 2006 – 2012;
Assistant Teaching Professor, University of California, Berkeley, CA, USA, 2003 – 2006.

Professional Interest:

CS Education best practices for teaching introductory computing; CS Education K-12 advocacy efforts at state and national level; CS Education adaptive, intelligent tutors for online learning; CS Education supporting & mentoring URM, teaching track faculty; Computational Game Theory.

ACM Activities:

Symposium Co-Chair, SIGCSE, 2017 – 2018;
Program Co-Chair, SIGCSE, 2016 – 2017;
Education Board & Council, ACM, 2007 – 2016;
Student Volunteer Co-chair, SIGCSE, 2008.

Membership and Offices in Related Organizations:

CS Principles Development Committee Member, College Board, 2013 – 2018;
Member, CSforCA, 2017 – Present;
Working Group Member, NSF CISE Education and Workforce Program, 2016 – Present.

Awards Received:

Google CS4HS Ambassador, 2017;
NCWIT Undergraduate Research Mentoring Award, 2016;
LPFI Lux Award, 2015;
ACM Distinguished Educator, 2012.

STATEMENT

What an exciting time to be involved in CS Education!

CS is 'hot' again, and many of us are seeing historic numbers of students clamoring for our programs. The CSforALL movement has awoken many to the importance of K-12 CS education, but also to how many aren't being reached. Daily, we read about the 'global impact' of our field.

My recent experience on the ACM Education Board, CS Principles Development Committee and as SIGCSE Program and Symposium Co-chair has provided a unique perspective of our strengths, but more importantly where growth opportunities exist.

We need more diversity and inclusion in our conferences, institutions, and leadership. We especially need more voices from the K-12, teaching faculty and international community; we have so much to learn from each other!

We need to build bridges to other SIGs (what are they doing that we should be?), and between SIGCSE's four conferences (like summaries!).

We need 'test of time' awards, archived keynotes, and a stronger connection to our industry.

I can think of no greater way to give back to the SIGCSE community that has given me so much for 20 years, than to serve as its Vice-Chair.

Candidate for Vice-Chair

Briana Baker Morrison
University of Nebraska Omaha, NE, USA

BIOGRAPHY

Academic Background:

Ph.D., Georgia Institute of Technology, 2016, Human Centered Computing.

Professional Experience:

Assistant Professor, University of Nebraska Omaha, NE, USA, 2016 – Present;
Assistant Professor, Kennesaw State University, Marietta, GA, USA, 2015 – 2016;
Assistant Professor, Southern Polytechnic State University, Marietta, GA, USA, 1996 – 2015.

Professional Interest:

Computer Science Education; Broadening Participation in Computing;
Increasing K-12 Computing Teachers and Access; K-12 Computing Curricula;
Software Engineering.

ACM Activities:

At-Large Board Member, SIGCSE, 2016 – Present;
Committee Member, ACM Education Advisory Committee, 2017 – Present;
Associate Editor, Transactions on Computing Education, 2017 – Present;
Various volunteer positions, SIGCSE Technical Symposium and ICER, 2010 – 2015.

Membership and Offices in Related Organizations:

Development Committee Member, AP Computer Science A, 2017 – Present;
Co-Editor, NCWIT EngageCSEdu Project, 2018 – Present.

Awards Received:

Georgia Tech Foley Scholar Finalist, 2015;
SIGCSE ICER 2015 Best Paper.

STATEMENT

My family jokes that I take the path less traveled. After working eight years at IBM, I transitioned to academia. For a while I was happy teaching classes and helping students. Then I wondered why some students were able to learn programming while it was difficult for others: the research bug bit me. I earned my PhD at Georgia Tech and began a new journey as tenure-track faculty.

One constant since joining the academy has been my community, SIGCSE. Here I found 'my people'; others who were just as passionate about teaching computing. It wasn't long before I volunteered for the organization: first the Technical Symposium, then ICER, most recently as

co-Editor-in-Chief of EngageCSEdu (an online resource collection for introductory programming instructional materials) and now as an At-Large Board member. It's been my pleasure to serve the organization. On the Board I have been the ICER liaison, working to ensure ICER continues as the premiere CS Education research conference. I volunteered to document the organization's history for its 50th anniversary in the form of blog posts. I have worked to ensure the organization is growing, thriving, and transparent in its decision making. I want to help the organization continue its success as it begins its next 50 years.

Candidate for Secretary

Stephen Cooper
University of Nebraska-Lincoln, NE, USA

BIOGRAPHY

Academic Background:

Ph.D., Syracuse University, 1997, Computer Science.

Professional Experience:

Director, Raikes School, Associate Professor, Computer Science and Engineering, University of Nebraska-Lincoln, NE, USA, 2016 – Present;
Associate Professor (Teaching), Computer Science, Stanford University, Stanford, CA, USA, 2010 – 2016;
Professor, Computer Graphics Technology, Purdue University, West Lafayette, IN, USA, 2009 – 2010.

Professional Interest:

Computing Education - Spatial Skills; Computing Education - Software Engineering Education; Computing Education - Cybersecurity Education; Computing Education - Program Visualization; Programming Languages.

ACM Activities:

Program Chair, CompEd, SIGCSE, 2018 – Present;
Chair, search committee to identify editor(s) for ACM TOCE, 2015;
Associate Editorial Board, ACM Inroads, 2010 – 2015;
Board of Directors (chair 2011-13), CSTA, 2006 – 2014.

Membership and Offices in Related Organizations:

Chair, community to prepare whitepaper on computing education research, CRA, 2014 – 2016;
Program Officer, Division of Undergraduate Education, NSF, 2007 – 2009.

Awards Received:

ACM Distinguished Educator, 2012.

STATEMENT

As someone whose Alice work falls squarely into computing education, I have been attending the SIGCSE symposium regularly since 1999, serving in several organizational roles. I have attended several ITiCSE and ICER conferences as well, and am honored to be co-program chairing SIGCSE's new conference, CompEd 2019.

In reading the latest issue of Inroads, I was struck by many of the challenges facing computing education, from equity to the growth of students taking CS classes, to the faculty challenges, etc. While SIGCSE does take a leadership role in helping to address some of these issues, I think we can do more. When I was at NSF, I saw other STEM professional societies winning millions of dollars in grants to tackle important issues facing their members. I worked with CSTA to help write grants which have had enormous impact on its members' support. I believe that SIGCSE can do more, both directly as the Board as well as in coordination with our members to secure funding to more quickly address many of the issues we face.

I am running for secretary both because I think of myself as a diligent notetaker, and I get to listen to others!

Candidate for Secretary

Tyler Menezes
SRND, Seattle, WA, USA

BIOGRAPHY

Professional Experience:

Executive Director, SRND, Seattle, WA, USA, 2014 – Present;
Program and Education Director, SRND, Seattle, WA, USA, 2013 – 2014;
Co-Founder and Director of Engineering, Framebase, San Francisco, CA, USA, 2011 – 2013.

ACM Activities:

Member, ACM & SIGCSE, 2017 – Present.

Awards Received:

Forbes 30 Under 30 - Education Category, 2018;
Splunk Revolution Awards - Social Impact, 2015;
425 Business 30 Under 30 - Education, 2015.

STATEMENT

Fifty years on from the founding of SIGCSE, CS has become central to our lives, but the diversity of students pursuing careers remains low. High-quality, research backed education is necessary to close that gap, and ensure everyone has an equal say in creating the future. SIGCSE's mission is more important than ever, and I'm honored to run for the position of secretary to help advance that mission.

My experience on all sides of CS education makes me well-suited for a position on the board: as the Executive Director for a worldwide nonprofit which has served 35,000 students in 52 cities, as a six-year teacher of Computer Science with Microsoft TEALS, and as the former engineering lead for a Y Combinator and venture-backed tech startup. My work in CS education has earned me recognition on Forbes's 30 Under 30 list, as well as invitations to speak to US State Department delegations, among others.

As Secretary, I would: use my experience leading a large organization to ensure SIGCSE executes on its mission effectively and efficiently; and spotlight the impact SIGCSE research makes in the real world.

I look forward to serving you if elected!

Candidate for Secretary

Leo Porter

University of California, San Diego, La Jolla, CA, USA

BIOGRAPHY

Academic Background:

Ph.D., University of California, San Diego, 2011, Computer Science.

Professional Experience:

Associate Teaching Professor, UC San Diego, La Jolla, CA, USA, 2018 – Present;

Assistant Teaching Professor, UC San Diego, La Jolla, CA, USA, 2014 – 2018;

Assistant Professor, Skidmore College, Saratoga Springs, NY, USA, 2011 – 2014.

Professional Interest:

Peer Instruction; Predictors of Student Success; Concept Inventories; Faculty Adoption; Computer Architecture.

ACM Activities:

SIGCSE Bulletin Co-Editor, 2016 – Present;

ACM Senior Member, 2017 – Present;

ICER Lightning Talks/Poster Chair, 2015 – 2016.

Membership and Offices in Related Organizations:

Co-Organizer, New Computer Science Faculty Workshop, 2015 – Present;

Associate Editor, Transactions on Computing Education (TOCE), 2017 – 2018;

Conference Chair, Consortium for Computing Sciences in Colleges (CCSC-SW), 2017.

Awards Received:

SIGCSE 2016, Best Paper Award;

ICER 2014, Chair's Award;

SIGCSE 2013, Best Paper Award;

HPCA 2011, Best Student Paper Award.

STATEMENT

I am honored to be nominated to the SIGCSE Board. As SIGCSE Bulletin co-editor for the past three years, I attended Board meetings and witnessed first-hand the important work conducted by the Board. I am inspired by the prospect of contributing to the community as Board Secretary.

I have four key priorities (beyond the standard secretarial duties):

- Ensure high quality reviews at SIGCSE conferences in the presence of increasing numbers of submissions.

- Expand the acceptance and use of our research results by non-SIGCSE faculty and K-12 teachers.
- Support ongoing efforts to grow the broadening participation community.
- Continue to expand our community through international conferences (e.g., the CompEd conference).

I have been deeply involved in CER, having earned the Best Paper Award for research on Peer Instruction at SIGCSE13 and SIGCSE16, as well as the Chair's Award at ICER14. Although early in my career, I have engaged in service efforts as SIGCSE Bulletin co-editor (2016-2019), co-organizer of the NSF-funded New Computer Science Faculty Teaching Workshop (2015-Present), Conference Chair for CCSC-SW2017, Poster/Lightning Talks Chair for ICER (2015-2016), and MS Committee Chair for my department (2017-2018).

Candidate for Treasurer

Andrew Luxton-Reilly
University of Auckland, New Zealand

BIOGRAPHY

Academic Background:

Ph.D., University of Auckland, 2012, Computer Science.

Professional Experience:

Associate Professor, University of Auckland, New Zealand, 2017 – Present;

Senior Lecturer, University of Auckland, New Zealand, 2012 – 2017;

Senior Tutor, University of Auckland, New Zealand, 1999 – 2012.

Professional Interest:

Introductory programming; Assessment of programming; Collaborative learning;

Educational technology; Gender equity and diversity.

ACM Activities:

Program Co-Chair, ACM CompEd, SIGCSE, 2019 – 2021;

Chair, Australasian Chapter of SIGCSE, 2018 – Present;

Editorial Board Member, ACM Transactions on Computing Education (TOCE), 2016 – Present;

Editorial Advisory Board, ACM Inroads, 2015 – Present.

Membership and Offices in Related Organizations:

Program Co-Chair, Australasian Computing Education conference (ACE), 2019 – Present.

Awards Received:

Australasian Computing Education Conference, Best Paper Award, 2018;

ITiCSE, Best Presentation Award, 2016;

ITiCSE, Best Working Group Report Award, 2010;

ICER, John Henry Award, 2008.

STATEMENT

The first 14 years of my academic career was in a teaching-only role where I gained inspiration from the SIGCSE community, before spending the next 10 years as a computing education researcher. These dual roles have given me an appreciation for the needs of both practitioners and researchers, and the incredible support that the SIGCSE community provides.

My excellent organizational skills and ability to work with others has been developed through my extensive service and leadership in a broad range of roles including Associate Program

Chair for the SIGCSE Technical Symposium and ITiCSE conferences, Senior Program Committee member for ICER, leadership of ITiCSE Working Groups, ACE Conference Co-Chair, ACM CompEd Program Co-Chair, Chair of the Australasian Chapter of SIGCSE, Deputy Chair of the University of Auckland Human Participant Ethics Committee, Faculty Equity Committee member, and Program Leader for the School of Computer Science.

I am a strong advocate for the SIGCSE community, with an international outlook. As Treasurer, I will work with the board to promote a sustainable environment that would: support participation and inclusiveness; improve life-long engagement with computing education; build capacity among computing education researchers; and, broaden the reach of SIGCSE among international audiences.

Candidate for Treasurer

Bruce Scharlau
University of Aberdeen, United Kingdom

BIOGRAPHY

Academic Background:

Ph.D., University of St Andrews, 1992, International Relations.

Professional Experience:

Senior Lecturer, University of Aberdeen, UK, 2012 – Present;
Lecturer, University of Aberdeen, UK, 2001 – 2011;
MSc., Applied Computing, University of Dundee, UK, 1999 – 2000.

Professional Interest:

Agile and lean software development; Playful approaches to learning; Open data in teaching;
Industrial/professional experience for students.

ACM Activities:

Conference chair, Innovation and Technology in Computer Science Education (ITiCSE),
2018 – 2019;
Working group co-chair, ITiCSE, 2017 – 2018;
Evaluations, ITiCSE, 2016 – 2017.

Membership and Offices in Related Organizations:

Organisation team, Play4Agile, 2017 – Present;
Member, Agile Alliance, 2016 – Present;
Senior Fellow, Higher Education Academy (HEA), 2012 – Present.

STATEMENT

I am honoured to be proposed for the role of SIGCSE Treasurer. I bring committee experience and a different perspective. I am currently the conference chair for ITiCSE 2019 and was working group co-chair for ITiCSE 2018. I come to the role as someone who treads the liminal space between the academic and professional software development communities. My goal in higher education is to engineer 'learn by doing' experiences for students to enable professional experience before graduation. I chaired the XP2016 academic track, and have been on the organising team of the Play4Agile unconference since 2017. I co-developed an inter-institutional course with a colleague at our other local university and the local authority that set up a common space 'where the city is the classroom' for our students, and lead the employability task force at our university, and until recently co-chaired the committee which

successfully oversaw our school's Athena SWAN equality and diversity accreditation. If elected, I will support SIGCSE ambitions to develop its conferences and other activities to support our community. I will seek to develop wider industrial support and collaboration in its work, and to create more opportunities for all of our students.

Candidate for Treasurer

Mark Zarb
Robert Gordon University, Aberdeen, United Kingdom

BIOGRAPHY

Academic Background:

Ph.D., University of Dundee, 2014, Computing.

Professional Experience:

Senior Lecturer, Robert Gordon University, Aberdeen, UK, 2018 – Present;
Lecturer, Robert Gordon University, Aberdeen, UK, 2015 – 2018;
Associate Lecturer, Robert Gordon University, Aberdeen, UK, 2014 – 2015.

Professional Interest:

Computer Science Education; Student Concerns re: Transition into Higher Education;
Student Retention; Pedagogical Thinking; Learning Experience.

ACM Activities:

Doctoral Consortium Co-chair, ITiCSE 2019 Conference;
Posters and Panels Co-chair, ITiCSE 2018 Conference, 2017 – 2018;
Member, SIGCSE, 2014 – Present;
Professional Member, ACM, 2012 – Present.

Membership and Offices in Related Organizations:

Fellow, Higher Education Academy, 2017 – Present.

Awards Received:

Continued Excellence Award (RGU Student-Led Teaching Awards), 2018;
Lecturer of the Year (RGU Student-Led Teaching Awards), 2017.

STATEMENT

I have had the opportunity to attend a number of SIGCSE and ITiCSE conferences since 2011, acting in a number of roles from reviewer, session chair, presenter and working group leader to, most recently, doctoral consortium co-chair. Throughout my attendance and engagement at these conferences I have come to appreciate the importance of the SIGCSE conferences, and the impact they have on the future of the field of CS Education.

Being SIGCSE Board Treasurer would allow me to balance the financial needs of the organisation, and would also allow me to understand how SIGCSE attracts and supports current students and new academics into the field of CS Education (for example, through

Student Research Competitions, Doctoral Consortia and the award of the Travel Grant) – this is an area I am keen to be further involved in, as it directly impacts the future of the field.

I look forward to the challenges and opportunities afforded by this position and would look to make a positive contribution to the SIGCSE Board.

Candidate for At-Large Member

Steven Paul Bradley
Durham University, United Kingdom

BIOGRAPHY

Academic Background:

Ph.D., Northumbria University, 1995, Computer Science.

Professional Experience:

Associate Professor (Teaching), Durham University, UK, 1997 – Present;
Foreign expert visiting lecturer, Beijing Jiaotong University, China, 2016 – Present;
Lecturer, Northumbria University, Newcastle-upon-Tyne UK, 1995 – 1997.

Professional Interest:

Computer Science Education; Citizen Science; Knowledge representation and student learning; Web-based data collection; Real-time systems.

ACM Activities:

Chair, UK & Ireland ACM SIGCSE Chapter, 2018 – Present;
Programme Chair, Computing Education Practice 19 (SIGCSE in-association),
2018 – Present.

Membership and Offices in Related Organizations:

Board member, British Computer Society Computing at School certificate, 2014 – Present.

Awards Received:

Google Computer Science for High Schools (CS4HS) funding, 2014.

STATEMENT

I have been closely involved in many of the exciting developments in UK CS education in recent years through my work on the BCS Computing at School certificate, which is now being adapted to train a whole new generation of school computing teachers through the £78 million National Centre for Computing Education.

As a higher education practitioner with many years experience in many different institutions I have looked to provide a collegiate forum for sharing innovative practice through the Computing Education Practice conference, which I started in 2017, and which now has SIGCSE in-association status. Out of the conference grew the UK & Ireland chapter of SIGCSE which I founded in 2018 and have chaired since. My pedagogical research has been in the area of innovation of automated assessment and plagiarism, as well as investigating how creative collaborative computing can encourage better gender diversity in computing.

I am keen to further broaden my involvement in CS and education: working with Chinese universities and schools; through my role as chair of a not-for-profit citizen science company MammalWeb; and as a prospective at-large member for SIGCSE, a role in which I hope to be able to serve the broader community.

Candidate for At-Large Member

Kevin Buffardi
California State University, Chico, CA, USA

BIOGRAPHY

Academic Background:

Ph.D., Virginia Tech, 2014, Computer Science.

Professional Experience:

Assistant Professor, California State University, Chico, CA, USA, 2014 – Present;
Dean's Teaching Fellow, Virginia Tech, Blacksburg, VA, USA, 2008 – 2014;
User Experience Specialist, User Centric, Oakbrook Terrace, IL, USA, 2005 – 2008.

Professional Interest:

Computer Science Education Research; Software Testing; Adaptive Learning Technology;
Human-Computer Interaction; Free/Open Source Software.

ACM Activities:

Associate Program Chair, SIGCSE Symposium, 2017 – Present;
Reviewer, ICER, ITiCSE, 2014 – Present;
Member, ACM, 2003 – Present.

Membership and Offices in Related Organizations:

Editorial Review Board, Frontiers in ICT-Digital Education, 2015 – Present.

Awards Received:

IEEE Soft. Eng. Education for Millennials, Best Paper runner-up, 2018;
Graduate Teaching Excellence Award, Virginia Tech, 2013;
ACM Student Research Competition SIGCSE finalist (3rd place), 2013;
Outstanding Graduate Teaching Assistant, Virginia Tech CS Dept, 2012.

STATEMENT

As a board member-at-large, I will focus on supporting SIGCSE's growth and evolution with three primary principles:

- 1) Strength in diversity and inclusion—computer science education will be at its best when everyone is welcome to the table, including under-represented and under-served populations as well as students, educators, and researchers from all levels of education with representation from across the globe.

- 2) Embracing related communities—SIGCSE must resist an insular culture by actively reaching out and cooperating with related communities in learning sciences, engineering education, and broader education organizations.
- 3) Engaging feedback—serving a growing community requires actively seeking feedback from SIGCSE members and adapting accordingly; establishing a culture of continuous improvement includes adopting policies and programs that address the community's concerns while maintaining high standards.

Candidate for At-Large Member

MaryAnne L. Egan
Siena College, Loudonville, NY, USA

BIOGRAPHY

Academic Background:

Ph.D., Rensselaer Polytechnic Institute, 1997, Computer Science.

Professional Experience:

Professor, (Department of Computer Science), Siena College, Loudonville, NY, USA, 2011 – Present;

Chair, (Department of Computer Science), Siena College, Loudonville, NY, USA, 2013 – 2017;
Associate Professor, (Department of Computer Science), Siena College, Loudonville, NY, USA, 2004 – 2011.

Professional Interest:

Diversity in Computer Science; High school CS teacher development; Service learning; Outreach programs; Accessibility.

ACM Activities:

Birds of a Feather co-Chair, SIGCSE, 2018 – 2019;
Associate Program Chair, SIGCSE, 2014 – 2017;
Pre-conference events Chair, SIGCSE, 2013 – 2014;
Council Member, ACM-W, 2007 – 2014.

Membership and Offices in Related Organizations:

Program Chair or Site Chair, NY Celebration of Women in Computing, 2011 – 2016;
Academic Alliance member, NCWiT, 2015 – Present;
Birds of a Feather co-Chair, Grace Hopper Celebration, 2008 – 2009.

Awards Received:

Faculty recognition award for service learning in CS, 2011.

STATEMENT

I attended my first SIGCSE conference in 1998. Since that time, I have been an active member involved in varying capacities with the SIGCSE, ITiCSE, and CCSC-NE conferences. While I have not served on the SIGCSE board, my experiences on these conference committees will be beneficial as an At-Large member.

In addition to my conference committee experiences, my passion for ensuring that all groups are represented in the computing field would be an asset to the committee. I have worked on several programs that:

- give underrepresented groups the opportunity to explore computing as a discipline;
- provide secondary school teacher education and support;
- provide mentoring to undergraduate students;
- demonstrate how service and social justice issues may be incorporated in computing classes.

As an At-Large member of the SIGCSE board, I hope to contribute in ways that will enhance the computer science education community, making more students feel welcome and therefore better represented. If I am elected, I will support all activities of the group to the best of my abilities.

Candidate for At-Large Member

Amardeep K. Kahlon
Austin Community College, TX, USA

BIOGRAPHY

Academic Background:

Ph.D., The University of Texas at Austin, 2012, Education Leadership.

Professional Experience:

Professor of Computer Science, Austin Community College, TX, USA, 1996 – Present;
Director, Women in Technology, Austin Community College, TX, USA, 2018 – Present;
Founding Dean of Academics, BML Munjal University, Gurgaon, India, 2013 – 2014.

Professional Interest:

Broadening participation in computing; Gateway programming course; Web programming;
Transfer pathways.

ACM Activities:

Member, ad-hoc task force, CCECC, 2015 – 2016;
Member, ACM-India Education Committee, 2013 – 2015;
Founder, iSIGCSE, ACM-India, 2014.

Membership and Offices in Related Organizations:

Member, Austin Women in Technology, 2015 – Present;
Member and Active Volunteer, AnitaB.org Austin Chapter, 2017 – Present;
Chair, CCSC SCC annual conference, 2004.

Awards Received:

John Rouche Excellence in Teaching Award (for Computer Science), 2018.

STATEMENT

It is an honor to be nominated for the At-Large Member position on the SIGCSE Board. I am a strong, vocal supporter of SIGCSE, have presented at SIGCSE several times, and at Grace Hopper in 2018. While on sabbatical in 2013-14, I founded the India chapter of SIGCSE. In 2017, the Chronicle of Higher Education profiled me as a top ten innovator in the classroom for my work in competency-based education (CBE) in computer science (CS). I am a tireless proponent of efforts to broaden participation in computing (BPC) and serve as the director of the Women in Technology program at Austin Community College (ACC).

If elected, I will focus on:

1. BPC, in particular, the role community colleges (CCs) can play in bringing more women and minorities into computing and keeping them there.
2. Research-based best practices/recommendations for building robust and inclusive transfer pathways from CCs to a four-year degree.
3. Working with the SIGCSE committee to ensure that the symposium remains as strong as ever while growing attendance at the conference.
4. Increasing membership in SIGCSE.

With my unique qualifications, I bring together the best of both worlds - computing and education.

Candidate for At-Large Member

Viraj Kumar
Indian Institute of Science, Bangalore, India

BIOGRAPHY

Academic Background:

Ph.D., University of Illinois at Urbana-Champaign, 2007, Computer Science.

Professional Experience:

Visiting Professor, Indian Institute of Science, Bangalore, India, 2018 – Present;
Professor, PES University, Bangalore, India, 2013 – 2018;
Assistant Professor, NIIT University, Rajasthan, India, 2011 – 2013.

Professional Interest:

Computer Science Education; Education Technology; Parallel Computing for Climate Modeling;
Software Verification; Graph Algorithms.

ACM Activities:

Vice Chair, ACM India SIGCSE (iSIGCSE), 2016 – Present;
Co-chair, COMPUTE '18 conference, ACM India, 2018;
Co-developer and Co-evaluator of NPAT 2017, ACM India, 2016 – 2017.

Membership and Offices in Related Organizations:

Co-chair T4E '16 and T4E '18 conference, IEEE Technology for Education (T4E), 2016 – 2018;
Chief consultant, Committee to draft the National Education Policy (Govt. of India), 2017 – 2018;
Member secretary, Task Group on Education Technology (Govt. of Karnataka), 2014 – 2016.

Awards Received:

Rose Award for Excellence in Undergraduate Education (UIUC), 2011;
Ranked "Outstanding" on the Incomplete List of Teachers (UIUC), 2010;
Awarded for Outstanding Services as a Teaching Assistant (UIUC), 2007;
Recipient of the Institute Silver Medal (IIT Bombay), 2000.

STATEMENT

As a SIGCSE Board member, I will work towards better understanding the challenges facing computing educators in the global south and advancing efforts to address them. I experienced such challenges firsthand, having taught both in America (at a private liberal arts college and a public research university) and in India (at private universities and a public research institute), having served as Vice-Chair of ACM India's iSIGCSE, and having contributed to India's National Education Policy.

Several challenges stem from large student populations. To mitigate these, I have created open resources for Microsoft Research's "Massively Empowered Classrooms" project, published in L@S'14 and L@S'15, presented India's perspective at LAK'17 (Learning Analytics Policy workshop), co-developed India's first National Programming Aptitude Test (2017), and co-chaired two Education Technology conferences (T4E'16 and T4E'18). In 2018, I initiated successful discussions between AICTE (India's computing education regulator) and iSIGCSE to revise the national computing curriculum and to engage with all Indian computing educators.

SIGCSE can potentially improve educational standards for millions of students by scaling such engagements across the global south. I am running in order to drive such endeavors.

Candidate for At-Large Member

Laurie Murphy
Pacific Lutheran University, Tacoma, WA, USA

BIOGRAPHY

Academic Background:

M.S., Vanderbilt University, 1986, Computer Science.

Professional Experience:

Chair, Department of Computer Science, Pacific Lutheran University, Tacoma, WA, USA, 2014 – Present;

Associate Professor of Computer Science, Pacific Lutheran University, Tacoma, WA, USA, 2006 – Present;

Co Editor-In-Chief, Computer Science Education, Taylor & Francis publishers, 2007 – 2017.

Professional Interest:

Computer Science Education Research Introductory Programming; Instructional Practices; Recursion and Data Structures; Broadening Participation in Computer Science.

ACM Activities:

Co-facilitator, Comm. on Evidence-based Instructional Practices, SIGCSE, 2016 – Present;

ICER Senior Program Committee Member, SIGCSE, 2018;

ICER Program Committee Member, SIGCSE, 2009 – 2014.

Membership and Offices in Related Organizations:

Member, Papers Chair, Reviewer, CCSC-NW, 1999 – 2012.

STATEMENT

I am honored and excited to run for an At-Large position on the SIGCSE Board. I have been active in SIGCSE since my first conference in 2000, and I owe much of my professional growth to opportunities made available through this community. From the many pedagogies I learned at conferences and implemented in my classes, to becoming a participant in Bootstrapping CS Education Research, which led to multi-institutional research collaborations and serving as Co Editor-in-Chief of Computer Science Education, I would not be where I am today without SIGCSE. I would welcome the opportunity to give back to the community by serving on the Board.

I believe my experiences as a faculty member from a small liberal arts focused university in the Pacific Northwest, a department chair, and the only female faculty member in my department, will bring a useful perspective to the SIGCSE Board. If elected, I will work diligently to support

the initiatives of the Board and I have a particular interest in working to broaden participation in the field. I'll do my best to help SIGCSE be as beneficial to other educators as it has been to me for nearly two decades.

Candidate for At-Large Member

Manuel A. Pérez Quiñones
University of North Carolina at Charlotte, NC, USA

BIOGRAPHY

Academic Background:

DSc., The George Washington University, 1996, Computer Science.

Professional Experience:

Associate Dean/Professor, College of Computing and Informatics, UNCC, Charlotte, NC, USA, 2015 – Present;

Associate Professor, Computer Science, Virginia Tech, Blacksburg, VA, USA, 2000 – 2015;

Associate Professor, Electrical & Comp. Engineering, UPRM, Mayaguez, PR, 1996 – 2000.

Professional Interest:

Diversity in Computing; Computing Education; Cultural User Interface Design;
Personal Information Management; Usability Engineering.

ACM Activities:

Program/Symposium Co-Chair, 2018/2019 SIGCSE Technical Symposium, 2017 – 2019;

Co-Chair, Coalition to Diversify Computing (ACM affiliated group), 2014 – 2015;

Program Chair, ACM Richard Tapia Celebration of Diversity in Computing Conference, 2013 – 2014;

Chair, Coalition to Diversify Computing (ACM affiliated group), 2010 – 2011.

Membership and Offices in Related Organizations:

Advisory Board Member, CMD-IT, 2016 – Present;

Vice President Board, Virginia Latino Higher Education Network (VALHEN), 2012 – 2016;

Elected At-Large Member of the Board, Virginia Latino Higher Education Network (VALHEN), 2008 – 2012.

Awards Received:

CRA 2018 A. Nico Habermann Award, 2018;

Richard A. Tapia Achievement Award for Scientific Scholarship, 2017;

Dean's Award for Excellence in Service, College of Engineering, 2011.

STATEMENT

I come from a family of educators and public servants, and have been part of the SIGCSE community since 1990. I have participated in the Technical Symposium in almost every capacity: author, workshop organizer, panelist, reviewer and, in 2019 as co-chair of the 50th

Technical Symposium. Over the last decade, I have devoted considerable attention to the topic of under representation in computing. I now want to serve this community as an at-large member of the SIGCSE board. I have done research at government labs, taught in academic departments, and held several administrative positions in academia. I bring to the position experience in running conferences, serving on advisory boards, and leading diversity initiatives at the national level. I have a deep understanding of the challenges we face regarding equity, diversity and under representation in computing, and the potential benefits that addressing these challenges will bring to society. Computing is experiencing tremendous growth. With that growth comes a need to expand the services and opportunities for participation that we provide to the SIGCSE members. Therefore, I look forward to working with the board on special projects that address the diversity and growth of our community.

Candidate for At-Large Member

Jennifer Roscoe
Chicago Public Schools, Chicago, IL, USA

BIOGRAPHY

Academic Background:

Master in Education, The Ohio State University, 2010, Workforce Development and Education.

Professional Experience:

Computer Science Teacher, Chicago Public Schools, Chicago, IL, USA, 2013 – Present;
Adjunct Instructor -Project Dragonfly and Department of Biology, Miami University, Chicago, IL/Oxford, OH, USA, 2014 – 2015;
Computer Science Teacher, Perspectives Charter School, Chicago, IL, USA, 2010 – 2013.

Professional Interest:

Computer Science K-12 Education; IOS and Android Application Curriculum Development;
Addressing Gender and Minority Representations gap in CS.

Membership and Offices in Related Organizations:

Leadership Team Member, Chicago CSTA, 2017 – 2018.

Awards Received:

Excellence in Computer Science Education Award - awarded by CSTA, 2018.

STATEMENT

I am running for a SIGCSE At-Large Board Member position and will bring to the Board my energy, organizational skills, and collaborative nature to make the next 3 years of SIGCSE a continued and growing success.

I am particularly interested in growing the SIGCSE reach and mission, focusing on broadening participation and research-based educational practices. On a local level, I have been actively involved in growing, promoting and connecting K-12 teachers, universities, students and professionals in the Chicago area. As one example, I have organized a Women in CS Conference at my high school focusing on connecting industry professionals with aspiring CS students. I have also focused my work in the Chicago CSTA to normalize sharing best CS practices, fuel collaboration across the city and connect elementary school teachers to high school CS teachers.

As a board member at large, I would work to increase access to best practices in computing education, particularly addressing under represented populations, and encourage more collaboration in the growing and inclusive SIGCSE community.

Candidate for At-Large Member

Ben Stephenson
University of Calgary, Canada

BIOGRAPHY

Academic Background:

Ph.D., University of Western Ontario, 2006, Computer Science.

Professional Experience:

Teaching Professor, University of Calgary, Canada, 2016 – Present;
Senior Instructor, University of Calgary, Canada, 2012 – 2016;
Instructor, University of Calgary, Canada, 2007 – 2012.

Professional Interest:

Computer Science Education; Applied Artificial Intelligence, Computer Games.

ACM Activities:

SIGCSE Symposium International Committee, 2016;
SIGCSE Symposium Associate Program Chair, 2019.

Membership and Offices in Related Organizations:

Conference Chair, Western Canadian Conference on Computing Education (WCCCE), 2019;
Conference Chair, Principles and Practice of Programming in Java (PPPJ), 2009.

Awards Received:

Faculty of Science Educational Leadership Excellence Award, 2018;
SIGCSE Exemplary CS Education Research Paper, 2017;
Faculty of Science Teaching Excellence Award, 2010.

STATEMENT

I have been attending the SIGCSE and ITiCSE conferences for more than a decade. Each of these conferences has been a valuable opportunity to learn about novel research, hear the experiences of other educators, and build connections to teaching-focused colleagues at institutions around the world. I am, without a doubt, a more effective computer science educator because others have taken the time to share their work and provide encouragement at these conferences.

During the past decade I have contributed to the SIGCSE community as an author, reviewer, member of the SIGCSE Symposium International Committee, and most recently, as a SIGCSE Symposium Associate Program Chair. I would like to continue and expand my support for this

community by serving as an at-large member of the SIGCSE board. In that role I will work to ensure that SIGCSE continues to be the premiere global forum for educators sharing the research and practice of computer science education, and that the next generation of computer science educators will be as positively impacted by SIGCSE as I have been.