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14. ABSTRACT The goal of the travel grants is to increase the participation of students in the premier security conference: the IEEE Symposium on Security and Privacy. As stated in the webpage for student travel applications, preference was given to students working in security who showed evidence of financial need, students from institutions not traditionally represented at the conference, and students from diverse backgrounds. The awards are not intended for authors of accepted papers, but students with
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Report Title

Final Report: 2015-2018 IEEE Symposium on Security and Privacy and IEEE Computer Society Security and Privacy Workshops

ABSTRACT

The goal of the travel grants is to increase the participation of students in the premier security conference: the IEEE Symposium on Security and Privacy.

As stated in the webpage for student travel applications, preference was given to students working in security who showed evidence of financial need, students from institutions not traditionally represented at the conference, and students from diverse backgrounds. The awards are not intended for authors of accepted papers, but students with accepted papers were also be considered for travel awards.

Enter List of papers submitted or published that acknowledge ARO support from the start of the project to the date of this printing. List the papers, including journal references, in the following categories:

(a) Papers published in peer-reviewed journals (N/A for none)

<u>Received</u>	<u>Paper</u>
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TOTAL:

Number of Papers published in peer-reviewed journals:

(b) Papers published in non-peer-reviewed journals (N/A for none)

<u>Received</u>	<u>Paper</u>
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TOTAL:

Number of Papers published in non peer-reviewed journals:

(c) Presentations

Number of Presentations: 0.00

Non Peer-Reviewed Conference Proceeding publications (other than abstracts):

Received Paper

TOTAL:

Number of Non Peer-Reviewed Conference Proceeding publications (other than abstracts):

Peer-Reviewed Conference Proceeding publications (other than abstracts):

Received Paper

TOTAL:

Number of Peer-Reviewed Conference Proceeding publications (other than abstracts):

(d) Manuscripts

Received Paper

TOTAL:

Number of Manuscripts:

Books

Received Book

TOTAL:

Received

Book Chapter

TOTAL:

Patents Submitted

Patents Awarded

Awards

Graduate Students

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Post Doctorates

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Faculty Supported

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Under Graduate students supported

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Student Metrics

This section only applies to graduating undergraduates supported by this agreement in this reporting period

The number of undergraduates funded by this agreement who graduated during this period: 0.00

The number of undergraduates funded by this agreement who graduated during this period with a degree in science, mathematics, engineering, or technology fields:..... 0.00

The number of undergraduates funded by your agreement who graduated during this period and will continue to pursue a graduate or Ph.D. degree in science, mathematics, engineering, or technology fields:..... 0.00

Number of graduating undergraduates who achieved a 3.5 GPA to 4.0 (4.0 max scale):..... 0.00

Number of graduating undergraduates funded by a DoD funded Center of Excellence grant for Education, Research and Engineering:..... 0.00

The number of undergraduates funded by your agreement who graduated during this period and intend to work for the Department of Defense 0.00

The number of undergraduates funded by your agreement who graduated during this period and will receive scholarships or fellowships for further studies in science, mathematics, engineering or technology fields:..... 0.00

Names of Personnel receiving masters degrees

NAME

Total Number:

Names of personnel receiving PHDs

NAME

Total Number:

Names of other research staff

NAME

PERCENT SUPPORTED

FTE Equivalent:

Total Number:

Sub Contractors (DD882)

Inventions (DD882)

Scientific Progress

The 37th IEEE Symposium on Security and Privacy was held during May, 2016 at San Jose, CA, www.ieee-security.org/TC/SP2016. As the flagship conference for computer security research, the Symposium was a great success and yet again provided a premiere venue for the exchange of ideas between the best security and privacy researchers, developers, and practitioners.

The 2015 Symposium received 402 submissions, and accepted 55 papers for full presentation. In addition, 62 posters were presented during the Symposium reception. The symposium also featured a panel featuring panelists from DHS, NIST, and NSF; a diverse set of “birds of a feather” sessions, and a day of five separate workshops. The main symposium attracted a record high of 582 attendees from across the world—an increase of approximately 100 attendees over last year—and the audience included industry, academia, and government representatives. Among the attendees, approximately 38% were students. Approximately 19% of our attendees came from Europe, 6% from Asia, and a handful from the Middle East, Australia, and elsewhere. The Security and Privacy Workshops also had 248 attendees.

The 37th IEEE Symposium on Security and Privacy was held during May 23-25, 2016 in San Jose, CA, www.ieee-security.org/TC/SP2016. As the flagship conference for computer security research, the Symposium was a great success and yet again provided a premiere venue for the exchange of ideas between the best security and privacy researchers, developers, and practitioners. The 2016 Symposium received 411 submissions, and accepted 55 papers for full presentation. In addition, 48 posters were presented during the Symposium reception. The symposium also featured a panel featuring panelists from DHS, NIST, and NSF; a new “speed mentoring” event, and a day of six separate workshops. The main symposium attracted a substantial number of attendees (584) from across the world—continuing our strong trend of attendance over the past four years—and the audience included industry, academia, and government representatives. Among the attendees, approximately 30% were students. Approximately 19% of our attendees came from Europe, 6% from Asia, and a handful from the Middle East, Australia, and elsewhere. The Security and Privacy Workshops also had 233 attendees.

For many years, we have been using donations to help support travel costs for highly talented students who otherwise may not be able to participate in the Symposium. The donations were also used to support social events, which enhance the Symposium and its role as a vital community-building venue for all participants. With the help from your generous donation, the organizing committee funded 44 students to participate in the 2015 Symposium and 45 students in the 2016 Symposium.

Since 1980, the IEEE Symposium on Security and Privacy has been the premier forum for presenting developments in computer security and electronic privacy, and for bringing together researchers and practitioners in the field. The 2016 Symposium marked the 37th annual meeting of this flagship conference. The survey conducted among the attendees clearly indicated that the 2015 Symposium was a great success, and the Symposium (“Oakland” conference) continues to be ranked first among all top conferences in computer security and privacy. We couldn’t have achieved the continual successes without so many people’s hard work and the generous support from all the donors over the years.

This grant provided funding to assist US-based students to attend this meeting. Participation in symposia like this is an extremely important part of the graduate school experience, providing the opportunity to interact with more senior researchers and to be exposed to leading edge work in the field. The support requested in this proposal enabled the participation of students who would otherwise be unable to attend the IEEE Symposium on Security and Privacy.

Specific Objectives:

The amount of support provided to each student was on average \$1100. This amount covered a portion of the student’s travel (economy airfare), lodging for two nights and conference registration. The travel awards were provided by NSF, ARO, IEEE, and Google. NSF travel funds were used to provide support to 25 students. This grant in particular provided support for 10 students in 2015 and 9 students in 2016.

We provided (and followed) the following award criteria:

Directions on who should apply:

We encourage applications from students from a wide variety of institutions, diverse backgrounds, and first time attendees. The majority of travel grants will be given to students enrolled in U.S. institutions, but we also have funds to cover the participation of 4-5 students from international institutions. Undergraduate and graduate students will be considered.

In 2015, we particularly encourage participants of the GREPSEC II Workshop to apply for travel grants to the IEEE S&P Symposium at <http://www.ieee-security.org/grepsec/apply.html>.

Description of Award Criteria:

Given our limited funds, we are unable to provide awards to all applicants. Last year we only were able to provide awards to 35% of applicants. Awards will be determined by a committee of volunteers participating in the organization of the Symposium and the Workshops, and chaired by the Student Travel Chairs. Preference will be given to students working on security and privacy, students who can show evidence of financial need to attend the symposium or workshops, students from institutions not traditionally represented at the conference, and students from diverse backgrounds. The awards are not intended for authors of accepted papers or posters, but students with accepted papers will also be considered for travel awards.

The student travel selection committee included Alvaro Cardenas, Cliff Wang, Sein Peisert (2015) and Terry Benzel (2015) and Mark Gondree and David Balenson in 2016. Students were selected based on their interests in security, student diversity, and diversity of institutions.

Technology Transfer