

The Olin Conductorless Orchestra



Olin Spring Expo
Monday, May 14, 2018
Olin College of Engineering
Needham, MA



Olin College
of Engineering

OCO

Serena Chen, Anne Ku, Connor Novak, Shreya Rangarajan, Brandon Zhang—violins
Emma Pan, Maggie Rosner—violas
Kian Raissian, Emma Westerhoff, Rachel Won—cellos
Jeremy Ryan—flute
Eric Miller—alto flute
Katie Hite—flute and bass flute
Sunny Shroff—bass clarinet
Kerry McConnaughay—French horn
Kyle Emmi—trumpet
Diego Alvarez, Paul Nadan—trombones
Joe Sutker—bass trombone
Jonah Spicher—piano
Marie-Caroline Finke—glockenspiel and percussion

OCO Navigators: Diego Alvarez, Anne Ku, Kian Raissian, and Emma Westerhoff

Sibelius Transcribers: Serena Chen, Marie-Caroline Finke, Anne Ku

Sibelius Head Transcribers: Katie Hite and Shreya Rangarajan

Adjudication and professional coaching: Thomas Hill (principal clarinet emeritus, Boston Philharmonic), Emileigh Vandiver (University of New Hampshire), Sam Solomon (Boston University), Charles Peltz (New England Conservatory), Michael Avitabile (Hub New Music), and Diana Dabby (OCO professor)

Re-orchestrations: Diana Dabby

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Program

"I am the Doctor" from *Dr. Who* Murray Gold

Preludio Sinfonico for orchestra Giacomo Puccini*

The Magnificent Seven Elmer Bernstein*

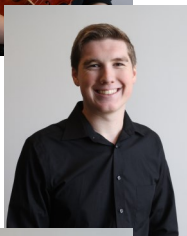
*Puccini composed *Preludio Sinfonico* for 2 flutes, piccolo, 2 oboes, English horn, 2 clarinets, 2 bassoons, 4 French horns, 2 trumpets, 2 trombones, bass trombone, timpani, cymbals, bass drum, harp, and strings (34 violins, 14 violas, 12 celli, 6 double basses). Elmer Bernstein scored *The Magnificent Seven* for 3 flutes, 2 oboes, English horn, 2 clarinets, bass clarinet, 2 bassoons, contrabassoon, 4 French horns, 4 trumpets, 2 trombones, 2 bass trombones, tuba, timpani, percussion, piano, and strings (25 violins, 7 violas, 8 celli, 6 double basses). OCO has always had an unusual combination of instruments so these pieces have been re-orchestrated to suit the current instrumentation: 5 violins, 2 violas, 3 cellos, flute, alto flute, bass flute, bass clarinet, French horn, trumpet, 2 tenor trombones, bass trombone, piano, glockenspiel, and percussion.



Diego Alvarez '20 is from Kirkland, Washington. He started playing piano in 5th grade, and later picked up trombone, composition, and guitar. He plans to study mechanical engineering.



Serena Chen '19 is from Plano, Texas. Her major is Engineering with Computing. She has been playing violin for 11 years. In her spare time, she enjoys drawing snails.



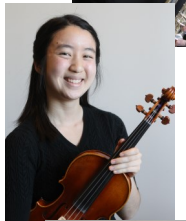
Kyle Emmi '21, from Clovis, California, has played Trumpet since 5th grade after deciding that his arms weren't long enough for trombone. He played in his high school jazz band, wind band, and symphony orchestra. He plans on becoming an aerospace engineer while studying under the guise of being a mechanical engineer.



Marie-Caroline Finke '18 comes from Darmstadt, Germany. Her major is Electrical and Computer Engineering with an interest in sound and renewable energy. In OCO she is playing several percussion instruments.



Kathryn Hite '18 is from Temperance, Michigan, and is majoring in Engineering with a concentration in Software Systems. She has been playing the flute for 13 years and has performed with the Toledo Youth Orchestra and other concert groups.



Anne Ku '19, from Palo Alto, California, has been an active musician for 14 years. She is majoring in Electrical and Computer Engineering.



Kerry McConnaughay '20 is from McLean, Virginia, and has been involved in music for 14 years. She played trumpet in fifth grade and began playing French horn two years later. She has performed with multiple groups including Langley's Wind Symphony, Virginia district bands, McLean's American Youth Symphonic Orchestra, and the Brandeis-Wellesley Orchestra. At Olin, she plans on majoring in Mechanical Engineering.



Eric Miller '19, from Granville, Ohio, has been playing flute for 12 years, before starting Alto Flute for the first time this year. He is majoring in Robotics, which he describes as "basically just an excuse to take whatever classes I want to."



Connor Novak '20 is from Reno, Nevada. He began playing the violin at an early age and has performed with the Reno Youth Symphony Orchestra and other performance groups. His major in Robotics allows him to spend time working on his favorite project, a robotic tractor.



Paul Nadan '20 is from San Carlos, California. He began playing the euphonium in 5th grade, and picked up the trombone two years later. He plans to study aerospace engineering during his time at Olin.



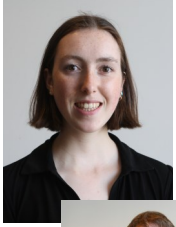
Emma Pan '21 is from Westwood, Massachusetts, and has been playing the viola for 2 years. Before that, she was a violinist for a decade. She has performed with Boston Youth Symphony Orchestras for 6 years, and got the chance to play for the opera Eugene Onegin last year. Her major is currently undecided.



Kian Raissian '20 is from Houston, Texas. He has been playing cello for about 14 years now and has been an active soloist and was a part of Houston Youth Symphony and other ensembles, including the Helios Quartet, which he founded and managed. He is studying Mechanical Engineering. He also enjoys longboarding, playing ultimate Frisbee, and secretly loves SolidWorks.



Shreya Rangarajan '18 is from Baltimore, Maryland, and is majoring in Engineering with a concentration in Biomedical Engineering. She started her performing arts training at the Peabody Conservatory and has been playing the violin, singing, and dancing for 16 years. When she's not involved in arts, she likes to socialize, play sports, and watch Netflix.



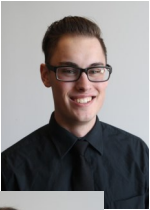
Margaret Rosner '20 is from Tacoma, WA and is majoring in Mechanical Engineering. She started playing the viola this year and had previously played the violin for 9 years. In her free time she enjoys playing ultimate Frisbee, reading, and running.



Jeremy Ryan '20 is from Medical Lake, Washington, and has been playing flute for nine years. He also plays piccolo, piano, mallet percussion, and accordion, and composes music in his spare time. He intends to major in electrical and computer engineering.



Suraj Shroff '18 is from Nashua, New Hampshire, and is majoring in Mechanical Engineering. He has been playing bass clarinet for 9 years. Outside of OCO, he is heavily involved in Olin Electric Motorsports, Olin's Formula SAE Electric team.



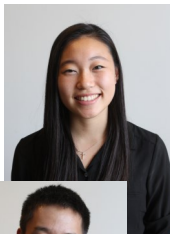
Jonah Spicher '21 is from Casper, Wyoming. He has played piano for ten years, spending three years as an accompanist for several different choirs. He is tentatively planning to major in electrical engineering.



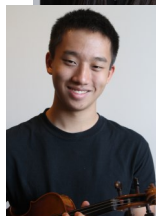
Joe Sutker '18 is from Boonton Township, New Jersey. He has been playing bass trombone since his first year of high school, when his band teacher thought that it would be cool, and he agreed. He has played many other instruments, including tenor trombone and percussion. He's nearly competent at a surprising number of things. Software engineering is one of them.



Emma Westerhoff '20 is from Scottsdale, Arizona. She has been playing cello for eight years, and also plays upright and electric bass in jazz ensembles. With plans to study Electrical and Computer Engineering, Emma enjoys math, soccer, and hiking in the desert.



Rachel Won '21 is from Saratoga, California and is currently on the track of Mechanical Engineering. She has been playing the cello for 8 years and has played in the California Philharmonic Youth Orchestra, Hopebox Charity Orchestra, and J'adore Cello, a 16-cello ensemble.



Brandon Zhang '21 is from Tenafly, New Jersey. He picked up violin in 3rd grade. His major is as of yet undetermined,

Many thanks to the following people for their help with OCO:

William Baez (Facilities personnel), Holly Bennett (Admin. Asst. for Academic Affairs), Susan Brisson (Assoc. Director of Admission), Pedro Cabrera (Facilities personnel), Linda Canavan (Registrar and Administrator of Curriculum and Academic Programs), Neiza Correia (Facilities personnel), Paul Coveney (Admin. Asst. for Academic Affairs), Michelle Davis (Chief Marketing Officer), Noel Espinal (Facilities Asst. Director), Francisco Fernandez (Facilities personnel), Marcella Fornagiel (Admin. Asst. for Academic Affairs), Alia Georges (Asst. Director of Admission and Financial Aid Counselor), Alyson Goodrow (Director of Marketing), Steve Hannabury (Executive V.P.), Joe Hunter (Asst. V.P. and Director of Communication), Ellise LaMotte (Director of Academic Services), Vin Manno (Provost and Dean of Faculty), Robinson Medrano (Facilities personnel), Susan Mihailidis (Director of Corporate, Foundation and Sponsored Programs), Rick Miller (President), Katherine McDonough (Admin. Asst. for Academic Affairs), Linda Miller (Asst. to the Provost and Dean of the Faculty), Shannon Paleologos (Director of Annual Giving and Family and Alumni Relations), Emily Petersell (Asst. Director of Admission, Emily Roper-Doten (Dean of Admission and Financial Aid), John Sullivan (Program Director, Needham Lions Club), Nancy Sullivan (Asst. to the President), Russ Zacharias (Facilities Director), Music Program Assistants Bryan Werth '19 and Luis Zuniga '21.

About OCO ...

The Olin Conductorless Orchestra (OCO)—an ensemble, minus conductor—features instrumentalists in leadership, communicative, and collaborative roles. Dedicated to orchestral performance in the concerted spirit of chamber music, the orchestra forges individual participation, active listening, and group-motivation into performances that have established it as the only conductorless orchestra composed of engineers—in the world!

OCO is a Project-Based Learning (PBL) course where students operate the classroom, and the professor contributes as guide-on-the-side. In helping to run rehearsals, students develop leadership, teamwork, and communication skills in a large team environment. With an essentially flat hierarchy that incorporates an ever-evolving sense of culture and cooperation as a working ensemble, OCO functions as a team of musicians—regardless of position—comprising students, faculty, and external guests, all dedicated to making good music with intensity, camaraderie, excitement, and humor.



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