

# Andrew Davis - CV

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## Education

- 2017 - 2018** M.S. in Computer Science | Stanford University  
GPA: 4.0 | Advisor: Chris Gregg
- 2013 - 2017** Ph.D. in Music Composition | University of Pennsylvania  
GPA: 3.98 | Advisor: Anna Weesner
- Additional studies at Curtis Institute of Music in conducting under Paul Bryan and Jonathan Coopersmith
- 2010 - 2012** M.M. in Music Composition | University of Texas at Austin  
GPA: 4.0 | Phi Kappa Pi
- 2005 - 2009** B.A. in Music | Yale University  
GPA: 3.83 | Cum Laude | Distinction in the Major

## Academic Positions

- July 2018 - Present** Wellesley College  
*Lecturer in Computer Science and Media Arts and Sciences*

## Major Academic Projects

- June 2020 - Present** Introductory Resources for DFT Analysis and Synthesis  
<https://github.com/andrewdavis33/DFT-Guide>
- A comprehensive, introductory guide to Discrete Fourier Transform in the context of audio for musicians and programmers. Much material for signal processing and Fourier analysis is too arcane for introductory students to the field of digital signal processing. This guide serves to lead newcomers through an intuitive derivation of the DFT and use a series of musical examples to articulate important theoretical and practical understanding. Future work for the project involves creating visual demonstrations and short YouTube videos to better illustrate principles of the DFT.
- July 2018 - Present** Instrument and Effect Software for the SuperCollider Platform  
[https://github.com/andrewdavis33/sc\\_library](https://github.com/andrewdavis33/sc_library)
- A repository of musical instruments, synthesizers, and effects written in slang for the SuperCollider platform. Examples of files range from experimental reverberators to traditional 80's synth effects. Future work includes development of Fourier techniques as well as UGens for server-side processing.

## Teaching Experience

WELLESLEY COLLEGE

**Fall 2018 - Present** Primary Lecturer: I have taught all classes below multiple times as the primary lecturer. *Introduction to Computer Music* was designed from scratch by myself, including all slides, assignments, and website. I have taught *Computer Programming and Problem Solving Methodologies* in a team format where multiple instructors teach separate sections of the same course but work together to devise course content and structure as well as manage students needs for an introductory course of over 100 students per semester.

*Introduction to Computer Music:* <https://cs.wellesley.edu/~cs203/>

Self-designed, interdisciplinary course spanning topics on music, computers and mathematics

*Computer Programming & Problem Solving:* <https://cs.wellesley.edu/~cs111>

First course in programming for CS majors on programming paradigms, recursion, and data structures

*Foundations of Computer Systems:* <https://cs.wellesley.edu/~cs240>

An introduction to software systems, machine organization and architecture, and digital logic

#### STANFORD UNIVERSITY

**Winter 2018 - Summer 2018** Graduate Assistant: I served as a graduate assistant for the courses listed below. My main duties were to hold office hours on campus and answer questions about course content on our online platform Piazza.

*Probability for Computer Scientists:* <http://web.stanford.edu/class/cs109/>

A mathematical overview of topics from basic counting to logistic regression

*Programming Methodology:* <http://web.stanford.edu/class/cs106a/>

First course in programming for CS majors on object-oriented design, decomposition, encapsulation, and abstraction

#### UNIVERSITY OF PENNSYLVANIA

**Fall 2014 - Spring 2016** Graduate Assistant: I taught a range of introductory music courses. Though I was a graduate students, I was the primary instructor for all courses listed below. I was responsible for curriculum development for both musicianship courses.

*Introductory Theory and Musicianship*

An introductory course on the basics of music notation and theory for non-music majors

*Music Theory and Labratory II*

Second course in musicianship designed for first-years and sophomores

*Music Theory and Labratory I*

First course in musicianship designed for first-years and sophomore

## Service Experience

#### WELLESLEY COLLEGE

**Fall 2019 - Present** *Tutoring Coordinator:* The tutor coordinator manages tutors across the department and serves as liaison between the department and the learning center on campus that governs tutoring across the college. The tutor coordinator organizes tutor training and coordinates with faculty on the hiring of tutors.

**Fall 2019 - Spring 2020** *Curriculum Committee Member:* The Curriculum Committee is responsible for evaluating and amending the department's offering of courses. The Curriculum Committee works with the department's Diversity and Inclusion Committee to asses the impact of the department's offerings on inclusion. During my time on the committee, we pushed to change the introductory sequence from a two-course model to a three-course model to alleviate the quick pace of the sequence and to better match student's previous exposure with CS to the appropriate course.

**Fall 2019 - Present** *CS Advisor:* CS Advisors advise CS majors and minors by planning out course schedules, advising on internships, and offering advice on career paths. I have advised 11 CS majors and minors during my time as a CS Advisor.

<b>Fall 2019 - Present</b>	<i>First-Year Advisor:</i> First-Year Advisors serve a term of three years and mentor six first-year students each year. Their primary responsibility is helping student choose courses that match their interest and ensuring that students understand distributional requirements and create a balanced schedule.
<b>Fall 2019 - Present</b>	<i>CS Poster Advisor:</i> CS Poster Advisors work with two seniors each year and guide them through a year-long project that culminates in department-wide poster session. Topics that students have chosen have ranged from algorithmic design for neuroscience to AI studies on music recognition.

## Composition Awards

<b>2020</b>	C4's IGNITE Commissioning Competition: Semifinalist
<b>2020</b>	MACRO Composition Contest: Winner - <i>Speechless</i>
<b>2019</b>	Boston New Music Initiative 7th Annual Commissioning Competition: Winner
<b>2018</b>	Sioux City Symphony Orchestra Composer of the Year: Honorable Mention - <i>Seek</i>
<b>2017</b>	Chaosflöte Commissioning Competition: Honorable Mention - <i>I Walk The Path Before Me</i>
<b>2017</b>	American Composers Orchestra Underwood Readings: Honorable Mention: <i>Seek</i>
<b>2016</b>	Luna Nova Composition Contest: 2nd Prize - <i>Hummingbirds</i>
<b>2015</b>	Flute New Music Consortium: Semifinalist - <i>What's Next?</i>
<b>2015</b>	Col Legno duo Composition Contest: Honorable Mention
<b>2015</b>	ASCAP Morton Gould Awards: Finalist - <i>The Deep End</i>
<b>2015</b>	Lyra Society Costello Composition Competition: 2nd Prize
<b>2015</b>	Halstead Prize from the University of Pennsylvania - <i>Nocturne</i>
<b>2014</b>	ASCAP Morton Gould Awards: Finalist - <i>Black Mamba</i>
<b>2013</b>	MACRO Competition: Honorable Mention - <i>Open Airs</i>
<b>2013</b>	BMI Student Composer Award: Finalist - <i>Midnight Drearies</i>
<b>2012-2013</b>	ASCAP Plus Award
<b>2012</b>	Boston New Music Initiative Commissioning Competition: Finalist - <i>Black Mamba</i>
<b>2012</b>	Choral New Music Initiative: Winner - <i>Holidays</i>

## Commissions

<b>2019</b>	Boston New Music Initiative and Cambridge Chamber Singers: <i>On The Nature of Things</i>
<b>2019</b>	Andrew Harrison, Saxophonist and Mt. San Antonio String Orchestra: <i>Serenade</i>
<b>2017</b>	loadbang and the RED NOTE New Music Festival: <i>Spitballing</i>
<b>2016</b>	Atlantic Music Festival: <i>Hummingbirds</i>
<b>2015</b>	Lyra Society of Philadelphia: <i>Sing Sweetly, Run Swiftly</i>
<b>2014</b>	Michael Harley, Bassoonist of Alarm Will Sound: <i>What's Next?</i>
<b>2014</b>	Alexandra Porter, Soprano: <i>Bamboo Grove?</i>
<b>2013</b>	Alarm Will Sound and the Mizzou International Composer Festival: <i>The Deep End</i>
<b>2012</b>	Charlie Magnone, Pianist: <i>Night Visions</i>

## Juried Compositional Festivals And Conferences

<b>2020</b>	New York City Electronic Music Festival: <i>Poetry of the Earth</i>
<b>2019</b>	TUTTI Festival at Denison University: <i>Nocturne</i>
<b>2017</b>	TUTTI Festival at Denison University: <i>I Walk The Path Before Me</i>
<b>2017</b>	RED NOTE New Music Festival
<b>2016</b>	Belvedere Chamber Music Festival: <i>Hummingbirds</i>
<b>2016</b>	Atlantic Music Festival
<b>2015</b>	World Association of Symphonic Bands and Ensembles: <i>The River Jumped Over The Mountain</i>
<b>2014</b>	Bowling Green State University Graduate Conference: <i>Open Airs</i>
<b>2013</b>	Mizzou International Composers Festival
<b>2013</b>	Manchester New Music Mini-Festival: <i>Funk Off</i>
<b>2013</b>	16th Festival of New Music at FSU: <i>The River Jumped Over The Mountain</i>
<b>2012</b>	New Music on the Point Festival
<b>2011</b>	SEAMUS/ASCAP Festival: <i>Spratonic</i>

## Compositional Discography

2019	"Nocturne". Petrichor Records; <i>New Music by Living Composers</i> . Category A - Solo Piano
2017	"Five Poisons". Andrew Harrison and Clare Longendyke; <i>In the City: New Works for Saxophone and Piano</i>
2016	"Funk Off". The TC4; <i>TC4</i>
2014	"Black Mamba." Contemporary Art Music in Texas; Limited Distribution for the 2012 ISCM World Music Days

## Score Publications

2016	"Sing Sweetly, Run Swiftly". Fatrock, Inc.
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## Guitar Discography

2019	Hawk Tubley and the Ozymandians: <i>Chocolate Maple Squeeze Play</i>
2016	Hawk Tubley and the Ozymandians: <i>Pond Kings in April</i>

## Notable Performing Groups

- Alarm Will Sound
- PRISM Saxophone Quartet
- Daedalus Quartet
- ETHEL Quartet
- JACK Quartet
- Aizuri Quartet
- loadbang
- Argento Ensemble
- Curtis Symphony Orchestra
- Skyros Quartet
- Florida State Wind Ensemble
- Yale Concert Band

## Grants

2014	American Composers Forum Philadelphia Subito Grant
2013 - 2017	Benjamin Franklin Scholarship at the University of Pennsylvania
2010 - 2012	Kent Kennan Endowed Graduate Fellowship

## Artistic Residencies

2017	Atlantic Center for the Arts
2016	ACRE
2015	Atlantic Center for the Arts

## Miscellaneous

2009	Assistant Producer for NFL Films   Emmy Nomination for NFL Weekly Countdown
2009	Intern at Strathmore Center for the Arts
2008	Intern at Wolf Trap National Park for the Performing Arts

## Software Engineering Skills

- **Music Programming Languages**  
*SuperCollider, Max/MSP, ChuckK*
- **Programming Languages**  
*C, C++, Python, Java, Standard ML*

- **Web Development**

*HTML5, CSS3/SASS, JavaScript, Jekyll*

## Professional Societies and Affiliations

- ASCAP
- ACM
- American Composers Forum
- SEAMUS (Society for Electroacoustic Music United States)

## References

**Name:** Anna Weesner  
**Institution:** Univ. of Pennsylvania  
**Position:** Professor of Music  
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**Name:** James Primosch  
**Institution:** Univ. of Pennsylvania  
**Position:** Professor of Music  
**Email:** primosch@sas.upenn.edu

**Name:** Chris Gregg  
**Institution:** Stanford University  
**Position:** Lecturer of Computer Science  
**Email:** cgregg@stanford.edu