

# 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 Laboratory II*

Second course in musicianship designed for first-years and sophomores

*Music Theory and Laboratory 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 assess the impact of the departments 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:* I have served as a major advisor for 11 students guiding them through course selection, internship advice, and help navigating the Wellesley curriculum.

**Fall 2019 - Present** *First-Year Advisor:* First-Year Advisors serve a term of two years and mentor students entering Wellesley for their first year. The primary responsibility is helping student choose courses that match their interest and ensuring that students understand distributional requirements and create a balanced schedule.

**Fall 2019 - Present**      *CS Poster Advisor:* CS Poster Advisors work with two seniors each year and guide them through a year-long project that culminates in

## Composition Awards

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

## Commissions

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

## Juried Compositional Festivals And Conferences

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

## Compositional Discography

2019      "Nocturne". Petrichor Records; *New Music by Living Composers*. Category A - Solo Piano  
 2017      "Five Poisons". Andrew Harrison and Clare Longendyke; *In the City: New Works for Saxophone and Piano*  
 2016      "Funk Off". The TC4; *TC4*  
 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.

## Guitar Discography

**2019** Hawk Tubley and the Ozymandians: *Chocolate Maple Squeeze Play*  
**2016** Hawk Tubley and the Ozymandians: *Pond Kings in April*

## 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, ChucK*
- **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  
**Email:** weesner@sas.upenn.edu

**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