

# Prawat (Pong) Trairatvorakul

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## MAILING

### ADDRESS

206 Elm St #205462  
New Haven, CT 06520  
USA

## SKILLS

### TECHNICAL

C/C++ • Python • Matlab  
Max • Pd • SuperCollider  
Verilog • PHP • MySQL  
HTML • CSS • Javascript  
L<sup>A</sup>T<sub>E</sub>X

### LANGUAGES

English (Fluent)  
Thai (Fluent)  
Mandarin (Intermediate)

### MEDIA SOFTWARE

Adobe Illustrator  
AutoCAD  
Final Cut Pro & Motion  
Logic Pro

### MUSIC

Piano (16 years)  
Violin (15 years)  
Percussion (4 years)  
Carillon (3 years)

## RELEVANT

### COURSES

#### TAKEN

Data Structures  
Algorithms  
Systems Programming  
Digital Systems  
Natural Language Processing  
Sound Synthesis  
Algorithmic Computer Music  
Musical Acoustics &  
Instrument Design

#### CURRENT SEMESTER

Computer Architecture  
VLSI System Design  
Laptop Ensemble

## EDUCATION

**YALE UNIVERSITY** New Haven, CT | Expected May 2018  
**B.S. ELECTRICAL ENGINEERING AND COMPUTER SCIENCE**  
Current GPA: 3.95/4.0

**HARVARD BEIJING ACADEMY** Beijing, China | Summer 2016  
Studied intensive intermediate Chinese in an immersive 9-weeks course

**BERKLEE COLLEGE OF MUSIC** Boston, MA | Summer 2015  
**FIVE-WEEK SUMMER PERFORMANCE PROGRAM**  
Performance program in jazz piano surrounded by other musicians from around the world

**BANGKOK PATANA SCHOOL** Bangkok, Thailand | 2004 - 2014  
**INTERNATIONAL BACCALAUREATE**  
Received full 45 in IB Diploma with additional subject (Further Mathematics)

## SELECTED WORK EXPERIENCE

**RESEARCH ASSISTANT** May 2017 - Aug 2017  
**LANGUAGE, INFORMATION, AND LEARNING AT YALE (LILY) LAB**  
Designed, implemented, and tested online anthology of Natural Language Processing, containing over 25,000 papers and teaching resources, that uses machine learning to analyze its contents and presents information to users in a friendly interface.

**UNDERGRADUATE TEACHING ASSISTANT** Aug 2016 - Present  
**CS50, CS112 & CS201: INTRODUCTION TO COMPUTING AND PROGRAMMING**  
Lead weekly 90 minute sections of 12 students and hold office hours for students in the course.

**DESIGN AIDE** Sep 2015 - Present  
**YALE CENTER FOR ENGINEERING INNOVATION AND DESIGN**  
Develop and lead workshops for members. Assist in labs of courses that utilize the space. Assist members in rapid prototyping projects. Ensure safety in the space.

## SELECTED ACTIVITIES

**DAVENPORT POPS ORCHESTRA** Fall 2014 - Present  
**CO-PRESIDENT (2016 - 2017), ORCHESTRA MANAGER (2015 - 2016), PERCUSSIONIST**  
Led entirely student run 80-person orchestra to perform student-arranged programs four times a year. Increased annual income to \$7,500. Expanded organization by establishing AV team to produce high quality promotional and concert videos that get over 20,000 views.

**YALE UNIVERSITY GUILD OF CARILLONNEURS** Fall 2014 - Present  
**WEBMASTER, RECORDING ENGINEER**  
Developed digital content management system to effectively organize and retrieve from 4000 piece sheet music library.

**YALE HANDBELL ENSEMBLE** Spring 2016 - Present  
**FOUNDER & PRESIDENT**  
Founded the group, manage logistics, and occasionally lead rehearsals.

## SELECTED HONORS AND AWARDS

2016 Tau Beta Pi Engineering Honor Society (top 12 percentile)  
2016 Richard U. Light Fellowship, East-Asian language study abroad Fellowship  
2014 Outstanding Youth Award, Ministry of Education, Thailand