

# Timothy Soo

MD Candidate, Founder, Developer / Designer, Musician

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## EDUCATION

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### University of Pennsylvania School of Medicine, Philadelphia PA

AUG 2010 - MAY 2018

MD, Doctor of Medicine (anticipated)

### Emory University, Atlanta GA

AUGUST 2006 - MAY 2010

Bachelor of Arts in Mathematics; Minor in Music

## HEALTH, TECHNOLOGY & RESEARCH

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### Penn Medicine Center for Health Care Innovation, Philadelphia PA

DECEMBER 2015 - PRESENT

Researcher, Developer, Current Team: mHealth Center Task Force

- *Improving clinical outcomes by optimizing patient experience and flow*  
Designed and piloted a Visit Guide mobile app for UPHS Health Systems aimed at improving the patient experience and expediting patient flow by create targeted features to reduce delays (e.g. hospital navigation, wait times). Currently in active use by multiple departments and scheduled for widespread implementation at Penn Medicine.
- *Timed-released discharge instructions from the Emergency Department*  
Currently building an application that sends discharge instructions at specific intervals after discharge to reduce readmissions and improve post-visit adherence.

### Meddik Incorporated, New York NY

APRIL 2011 - DECEMBER 2015

Founder, President & CEO

- Founded an NYC-based company dedicated to connecting individuals with health concerns to patients with clinically relevant experience on a platform that allows anonymity without sacrificing credibility. Raised \$800,000; Team of 9 employees.
- Investors include Chris Dixon (Andreessen Horowitz), Nat Turner & Zach Weinberg (Flatiron Health), Vivek Garipalli (CarePoint Health, NJ Health System, Clover Health), Great Oaks Venture Capital, Robert Stern (CME Projects in Knowledge); Advised by Andy Weissman (Union Square Ventures).
- Connected over 20,000 patients and partnered with several patient advocacy organizations across seven product iterations, designed to promote support and information-sharing while deterring misinformation.

### Blueprint Health, New York NY

DECEMBER 2011 - FEBRUARY 2014

Inaugural Member, Alumnus

- One of nine companies in the inaugural class of Blueprint Health Accelerator, the first East Coast health incubator.
- Advised new health-tech companies and actively recruited a network of investors, entrepreneurs and developers to the Blueprint Health community

### Harvard Medical School: Schepens Eye Research Institute, Boston MA

MAY 2009 - SEPTEMBER 2009

Research Intern, Software Developer; Clinical Research in Optometry; Principal Investigator: Eli Peli, M.Sc., O.D.

- Designed and clinically tested software that both analyzes and trains post-stroke patients with varying degrees of hemianopsia to develop dual adaptation (ability to regain spacial awareness through a shifted field-of-view) with the use of Peripheral Prism Glasses.
- Designed algorithm for automated software that analyze the driving competency of bioptic drivers based on GPS data.
- *Automated Analysis of GPS Data for Assessing Biopic Drivers; Software Development for Hemianopia Prism Training Project @ Eli Peli Lab, Schepens Eye Research Institute, affiliate of Harvard Medical School*

### Smithsonian Tropical Research Institute, Isla Caña Panama

SEPTEMBER 2008 - DECEMBER 2008

Infield Research Project Lead, Medicinal Plants; Advisor: Jorge Aranda, Licensed Smithsonian Botanist

- Conducted a month-long solo research project in Isla Caña, Panama (a remote island off the southern coast)
- Recorded an ethno-botanical survey of the medicinal plants on the island by shadowing a curandero (medical healer)
- Determined their medical efficacy based on scientific basis through a literature review of current research

## National Research Institute for Child Health & Development, Tokyo Japan

MAY 2008 - AUGUST 2008

Undergraduate International Researcher, Immunology; Principal Investigator: Dr. Hirohisa Saito, MD PhD

- Continued progestins vs mast cells project using LAD-2 cell line from Nihon University;
- Tested and validated novel method of harvesting mast cells from gross blood
- Assisted and worked with various post-doctoral fellows in their research ; Acquired specialized training in high-level laboratory techniques (Genechip, nanoDrop, autoMACS)
- *Effect of Progestins on LAD-2 Mast Cells @ Saito Lab*, Department of Allergy and Immunology, National Research Institute for Child Health & Development, Tokyo Japan

## Emory University Hospital Research Laboratory (Clinic B), Atlanta GA

JANUARY 2007 - MAY 2008

Undergraduate Researcher, Immunology; Principal Investigator: Dr. Santa Ono, Ph. D

- Studied on effects of progestins and other sex hormones on mast and RBL cell lines; Awarded Best Research Poster by Emory University
- *Effect of Progesterone on RBL/Mast Cells @ Santo Ono Lab*, Department of Allergy and Immunology, Emory Clinic B Atlanta GA

## HUMANITARIAN

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### Few for Change, Chiriqui, Panama

DECEMBER 2008 - PRESENT

Founder and President (2008 - 2011), Board Member, Operations (2012 - Present)

- Founded Few for Change, a 501(c)(3) volunteer-operated nonprofit organization that funds scholarships to high achieving students who are unable to continue their education due to financial difficulty. We work to increase educational opportunities for our students, currently operating in the indigenous Comarca Ngäbe-Buglé region of Panama.
- Funded 40 students over eight years; Three of our students, whom joined our program in middle school, are now at the University level with financial assistance from our graduate scholarships.
- Spend 1-2 weeks annually in Panama to welcome students, award new scholarships, organize strategic local partnerships, and set up educational resources; Directs the management and distribution of grants and donations; Responsible for 501(c)3 status, as well as other financial and legal filings.

### Puentes de Salud, Philadelphia, PA

AUG 2010 - DEC 2011, JAN 2015 - PRESENT

Volunteer Clinician, Coordinator

- Puentes de Salud is a volunteer clinic that serves the hispanic communities of Philadelphia through high-quality health care, innovative educational programs, and community building.
- Served as a clinician as well as a coordinator in charge of delegating volunteer responsibilities and directing patient flow.

## MUSIC & DESIGN

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### Gin Lane Media, New York NY

JUNE 2011 - MAY 2012

Visual and Interactive Designer

- Served as visual / interactive designer on advertising and marketing campaigns for Gin Lane Media, a New York Digital Design and Branding Agency with a specific focus on simple frictionless consumer experiences.
- Clients include HBO, Saks Fifth Avenue, Polaroid, NYC Fashion Week, AOL, Stella McCartney, Gilt Groupe, VICE (Grimes), and more.

### Invisible Instruments, New York NY

JANUARY 2010 - MAY 2011

Creator

- Designed and built a portable musical hybrid instrument (violin, guitar, piano, drums) out of handheld devices (e.g. touch-sensitive glove, iPhone, WiiMote) that merges classical technique, interactive performance, digital sound manipulation.
- Invited to perform with will.i.am on a Technology and Creativity Panel at the 2011 Cannes Music Festival.
- Winner of MTV Music Award, NYC Music Hack Day, Boston Music Hack Day

## PUBLICATIONS

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Houston KE, Bowers AR, Fu X, Liu R, Goldstein RB, Churchill J, Wiegand JP, Soo TA, Tang Q, Peli E. (2016) A Pilot Study of Perceptual-Motor Training for Peripheral Prisms. *Translational Vision Science & Technology*. 5(1):9.

Soo TA, Aranda J (2008). Inventario etnobotánico de la flora medicinal utilizada por la comunidad de Isla Caña de Tonosí y las actividades biológicas. *Smithsonian Tropical Research Institute Library*. 1-58.

## SKILLS

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### Language

- Spanish (writing and speaking fluency)
- Chinese (speaking fluency)
- Japanese (basic)
- SE Sign Language (basic)

### Technology

- Full-stack Web Developer
- Visual and Interactive designer
- Programming experience: AngularJS, Ruby on Rails, Python, Javascript, PHP, HTML, CSS

## HONORS & AWARDS

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### Academic

- Phi Beta Kappa Society, 2006-2010
- Henry L. Bowden Academic Scholar (Full-Tuition), 2006-2010
- Miriam Boykin Music Scholar, 2007
- International Research for Science (IRES) Grant, 2008
- Valedictorian, 2002-2006
- AMA Member

### Other

- MTV O Music Award - Best Music Hack, 2011
- Mashable.com Video of the Day, 2011
- New York Tech Meet-up (NYTM) Hack of the Month, 2011
- NYC MusicHackDay 1st Prize - Invisible Instruments, 2011
- SF Music Tech Boston MusicHackDay Winner, 2010
- LyricFind Prize Boston MusicHackDay Winner - SynLyrics, 2010
- DiversityAbroad.com Study Abroad Scholarship, 2008

## INTERESTS

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- Music: Violin, Piano, Voice, Guitar, Drums
- Sports: Ultimate Frisbee, Tennis