

# Yuri Zaitsev

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YuriZaitsev.com

## EDUCATION

### Stanford University

2019 Stanford, CA  
Advisor: David Kelley  
M.S. Mechanical Engineering  
Design Impact - Healthcare / Sustainability

### Northeastern University

2013 Boston, MA  
B.S. Mechanical Engineering  
Physics Minor

## SKILLS

### Processes

Design Thinking, Ethnography, Participatory Design  
Educational Workshop Development, Concept Design  
UI/UX, Game Design, System Design

### Technical

SLA, FDM, DLP, SLS(M), EBM 3D Printing  
Silicone/Metal Casting, Machine/Wood Shop Tools  
Microfab, Electronics Design

### Software

Python: TensorFlow, Keras, Scikit Learn, MATLAB, R  
Solidworks, ProE, Blender, Materialize Magics

## TEACHING EXPERIENCE

### Conversations in the Wild | Stanford

Stanford d.School w/ Nethra Samarawickrema

### Needfinding | Stanford & UCB

Stanford d.School & UCB w/ Michael Barry, Michelle Jia

### Advanced Product Implementation | Stanford

Stanford P.D. w/ Bill Burnett, Elijah Woolery

### Humor Serious Business | Stanford

Stanford GSB w/ Jennifer Aaker, Naomi Bagdonas

### SEPA Big Business Challenge | Harvard

HBS Exec Ed w/ Srikant Datar,  
Ramon Casadesus-Masanell

### The Listen Up Lab | Public

On going public and corporate series of workshops  
w/ Nethra Samarawickrema

## NOTE

US Citizen. Fluent in Russian and English.

## PROFESSIONAL EXPERIENCE

### Research Consultant

Quotient + Self

2018 - Present International

- Work with Non Profit - Fortune 500 Companies on multi-faceted, culturally sensitive, "wicked" problems.
- Perform diary assessments, ethnographic interviews, framework analysis and validation and prototyping internationally. Specialize on extreme users.
- Lead co-creative events with users and clients based on research findings.

### Senior Research Engineer

Stryker Orthopaedics

2014 - 2017 Mahwah, NJ

- Collaborated with surgeons, marketing, and product dev. to design novel orthopedic implants and was lead of new joint replacement concept development.
- Brought 4 implants to market from concept development through FDA 510(k) clearance.
- Lead many discussions with FDA and surgeons to discuss best practices and establish guides for 3D printed healthcare technology.
- Created research/manufacturing facilities in Ireland and Germany.
- Developed laser 3D printing technology for titanium alloys to create solid, porous, and linked structures for use in orthopedic applications.

### Visiting Researcher

Northeastern University

2013 - 2015 Boston, MA

- Designed tactile display to aid visually impaired individuals, which assists in discerning facial patterns during social interactions.
- Performed user testing, iterative prototyping, and predictive finite element simulation on designs to ensure prototype longevity and success.
- Created complex microscale structures using microfab photolithography, 3D printing, and molding.

## PUBLISHED WORK

### "Porous structure produced by additive layer manufacturing"

US 10,596,660 (Also in EP, and AU)

### "Bone plate system with inserts for contacting an adjacent bone surface"

US 10,383,667 (Also in EP)

### Scalable, MEMS-enabled, vibrational tactile actuators for high resolution tactile displays

Journal of Micromechanics and Microengineering,  
24(12), p. 125014