

# ATAU TANAKA AND DMIS

21M.370

Digital Instrument Design

Ian Hattwick

# **VOXEL LAB TOMORROW**

Music & Art Makerspace

[voxel.mit.edu](http://voxel.mit.edu)

E38-391

# ATAU TANAKA

EMG Based Performance

*Sensorband*

Goldsmiths, University of London

# EARLY INSTRUMENTS

- Theremin
- Ondes Martenot
- Trautonium
- Electronic Sackbut
- [Max Mathews](#) and Music-N & Groove
- Music Mouse!

## RELATED FIELDS

- Music Concrète - tape music
- DJs & turntablism
- Electric Guitar: [Jimi Hendrix Star Spangled Banner](#)

# MIDI CONTROLLERS

- MIDI keyboards
- Bob Minrzer - EWIs
- MIDI guitar
- Roland D-Beam
- Jean Michel Jarre Laser Harp
- Meta-Instrument
- Radio Baton

# HYPER INSTRUMENTS

- Augmented Musical Instruments
- Frances-Marie Uitti HyperCello
- STEIM & CNMAT
- [Sarah Nicolls Piano](#) \* Nic Collins - trombone-propelled electronics

# STUDIO FOR ELECTRO-INSTRUMENTAL MUSIC

STEIM, IRCAM, EMS, CCRMA

- [Michel Waisvisz - Hands](#)
- Joel Ryan
- [Cracklebox](#)
- [Sensorlab](#)
- Bert Bongers
- Edwin van der Heide - the MIDI Controller (Conductor?)
- [The Web](#)

# AUDIO AS SENSOR/MATERIAL

- Joel Ryan and Evan Parker (Saxophone)

# SURFACE INSTRUMENTS

- David Wessel Slabs
- Jeff Snyder Manta
- Brian Crabtree Monome Grid
- Linnstrument
- Roli Seaboard
- Haken Continuum

# FREE SPACE INSTRUMENTS

- Buchla Lighting
- Radio Baton
- Power Glove
- Laetitia Sonami Lady's Glove
- Pamela Z
- [Mimu Glove Imogen Heap] (<https://youtu.be/6HvRvrRhB6g>)

# BIOSENSOR BASED INSTRUMENTS

- [Alvin Lucier - Music for solo performance](#)
- [Atau Tanaka - BioMuse](#)