

# KANRU HUA'S WEBSITE

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## About Me

Welcome to my personal website.

I'm currently an undergraduate junior at University of Illinois, Computer Science + Math major.

My research interest is Speech Synthesis, in particular Singing Voice Synthesis (SVS). I was the author of Rocaloid, a SVS system. After resigning from Rocaloid development team, I continue working on my personal SVS researches & projects.



### My Current Projects

- Moresampler - More than a resampler  
An exotic synthesis engine that does everything, for singing synthesis software UTAU.
- libllsm - Low Level Speech Model  
Speech model and vocoder for high quality speech/singing synthesis.  
Source code: <https://github.com/Sleepwalking/libllsm>
- libgvps - Generic Viterbi Path Searcher  
An implementation of Viterbi algorithm and lots of its variants.  
Source code: <https://github.com/Sleepwalking/libgvps>
- libpyin - Probabilistic YIN  
An implementation of Matthias and Dixon's pYIN fundamental frequency estimation algorithm.  
Source code: <https://github.com/Sleepwalking/libpyin>

### My Past Projects

- Rocaloid (2011-2015)  
Originally it was an (unsuccessful) attempt to enable Hatsune Miku to sing in (Mandarin) Chinese; later turned into a general SVS system due to copyright issues; tens of thousands lines of codes written but also tens of thousands lines being thrown away; the latest version became a bundle of a UTAU resampler and a set of utilities.  
I quitted the development team on Sept 19, 2015 because Rocaloid lost its uniqueness as an expression of myself and our shared beliefs, and it was too late before I see this fundamental problem.  
Website: <http://www.rocaloid.org>
- ee-fft (2014)  
My high school final essay on a Fast Fourier Transform implementation hand-optimized for Intel CPUs with SSE2 instruction set. Faster than Ooura FFT, slower than fftw3.  
The good thing is, it is BSD licensed.  
Source code & Essay: <https://github.com/Sleepwalking/IB-EE-FFT>

### Personal stuffs

Musics. I'm a fan of Hatsune Miku whom I guess you can tell from the above projects. My favorite producers are Doriko, AVTechNO!, Mwk, Regulus, Orangestar and Bernis.

Non-anime musics: じゃんぐるカンガルー, In Love with A Ghost, Snail's House, DJ Okawari, Goose House.

A few months ago I learned guitar when doing intern at a music studio.

Photography. Wherever I go there're three things in my bag. Laptop, ultra-light electro-acoustic guitar, and EOS 5D MKIII.

### RECENT POSTS

libllsm2 Release

Help me with revising the experimental Arpasing recording script

This blog might remain broken for an indefinite amount of time.

Announcing SHIRO the Speech Alignment Toolkit

Moresampler 0.8.3 Release

### CATEGORIES

Acoustics/Electrical

Corpus Design

Speech Processing

Uncategorized

UTAU/Moresampler

### ARCHIVES

December 2017

August 2017

July 2017

June 2017

May 2017

March 2017

February 2017

October 2016

August 2016

July 2016

June 2016

May 2016

April 2016

March 2016

February 2016

### RECENT COMMENTS

pune on Moresampler 0.8.3  
Release

Dela Livi on Moresampler Bug  
Report Page

Dela Livi on Moresampler Bug  
Report Page

jiten on Moresampler Bug  
Report Page

Noida Escort on Moresampler  
0.8.3 Release