

# Takuto ASAKURA | Resume

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## Personal Profile

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I am a graduate student in SOKENDAI and a member of Miyao Group in the University of Tokyo. My research interests are natural language processing, and more specifically, semantics over natural language and mathematical expression. Aside from the research interests, I love T<sub>E</sub>X, the most well-known typesetting system in academic field, and have developed a number of L<sup>A</sup>T<sub>E</sub>X packages. As a member of T<sub>E</sub>X Live team, I maintain Texdoc, a command line tool to search documentation in the distribution.

## Education

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<b>SOKENDAI (The Graduate University for Advanced Studies)</b> <i>Master, Department of Informatics</i>	<b>Tokyo</b> <i>Apr. 2018–</i>
<b>The University of Tokyo</b> <i>Bachelor, Department of Bioinformatics and Systems Biology</i>	<b>Tokyo</b> <i>Apr. 2014–Mar. 2018</i>

## Experience

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<b>Research Organization of Information and Systems</b> <i>Assistant Technical Staff</i>	<b>Tokyo</b> <i>Apr. 2018–</i>
<b>Seiko Gakuin High School</b> <i>Teaching Assistant</i>	<b>Yokohama</b> <i>Sep. 2017–Mar. 2018</i>

## Languages

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**Japanese:** native  
**English:** fluent *TOEFL iBT 94*

## Journal & Conference Publications (refereed)

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- **Takuto Asakura**, Jin-Dong Kim, Yasunori Yamamoto, Yuka Tateisi, Toshihisa Takagi. A Quantitative Evaluation of Natural Language Question Interpretation for Question Answering Systems. In *JIST2018*.

## Journal & Conference Publications (non-refereed)

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- **Takuto Asakura**. A T<sub>E</sub>X-oriented research topic: Synthetic analysis on mathematical expressions and natural language. In *TUG2019*.
- **Takuto Asakura**. Understanding Scientific Documents with Synthetic Analysis on Mathematical Expressions and Natural Language. In *CICM2019*.
- **Takuto Asakura**. New Features in Texdoc 3.0. In *BachoT<sub>E</sub>X2018*.
- **Takuto Asakura**. Implementing bioinformatics algorithms in T<sub>E</sub>X—the Gotoh package, a case study. In *TUG@BachoT<sub>E</sub>X2017*.

## Interests

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- Natural Language Processing
- Mathematical Information Retrieval
- Semantic Parsing

## Computer skills

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**Programming Languages:** C, Python, Ruby, Lua, T<sub>E</sub>X (ON L<sup>A</sup>T<sub>E</sub>X), expl3

**Tools & Technologies:** Linux, Git, SPARQL

**Web Development:** HTML5, CSS3, Apache Web Server

## Products

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Open source software I developed including many L<sup>A</sup>T<sub>E</sub>X packages are available from [GitHub](#). The following is just a few examples.

- Texdoc: Find and view T<sub>E</sub>X Live documentation
- llmk: The Light L<sup>A</sup>T<sub>E</sub>X Make

## Prizes

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- W. J. Martin Prize: Best presentation award at *TUG@BachoT<sub>E</sub>X2017*

## Grants

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- T<sub>E</sub>X Development Fund: \$1,000, The Light L<sup>A</sup>T<sub>E</sub>X Make

*Jul. 2018*