Curriculum Vitae   Yang Gao

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Research Summary:

Yang Gao is currently working toward the Ph.D. degree in information and communication engineering, Tsinghua University, Beijing. His current research focuses on the new generation GNSS signal processing and real-time GNSS software receiver.

Education Background:

Ph.D. student Electronic Engineering   Beijing, China

Tsinghua University   **2015–present**

B.S. Electronic Engineering   Beijing, China

Tsinghua University   **2009–2013**

Honors and Awards:

2019	Second-class Comprehensive Merit Scholarship of Tsinghua University
2018	Doctoral National Scholarship
2017	Third-class prize in the 505th PhD student forum of Tsinghua
2012	Comprehensive Merit Scholarship of Tsinghua University
2011	Academic Merit Scholarships of Tsinghua University
2010	Academic Merit Scholarships of Tsinghua University

Research and Work Experience:

Assistant Engineer   Beijing, China

Beijing Satellite Navigation Center   **2013–2015**

Assistant Researcher Intern   Beijing, China

Beijing Institute of Tracking and Telecommunications Technology   **Summer 2012**

Selected Papers:

[1] **Gao, Y.**, Yao, Z., Lu, M., "Exploring the Ultra-high-precision Ranging Potential of BDS B1 Signal," accepted by ION GNSS+ 2020, 2020. [Oral presentation]

[2] **Gao, Y.**, Yao, Z., Lu, M., "A coherent processing technique with high precision for BDS B1I and B1C signals," CSNC 2020, pp. 537-550. [**Best Paper Award**]

[3] **Gao, Y.**, Yao, Z., Lu, M., "High-precision tracking technique for BDS B1 wideband composite signal," accepted by *Navigation: Journal of the ION*, 2020.

[4] **Gao, Y.**, Yao, Z., Lu, M., "Design and Implementation of Real-time Software Receiver for BDS-3 Signals," *Navigation: Journal of the ION*, 2019, 66(1): 83-97.

[5] **Gao, Y.**, Yao, Z., Lu, M., "Theoretical analysis of unambiguous 2-D tracking loop

performance for band-limited BOC signals," *GPS Solutions*, 2018, 22(1): 30.

[6] Yao, Z., Gao, Y., **Gao, Y.**, Lu, M., "Generalized theory of BOC signal unambiguous tracking with two-dimensional loops," *IEEE TAES*, 2017, 53(6): 3056-3069.

Presentations:

[1] **Gao, Y.**, "GNSS Software Receiver and Its Applications", *the 1st Tsinghua-Stanford Joint Workshop on Positioning Navigation and Timing*, Shenzhen, May 2017.