

# Stanford

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## Chaofei Fan

Ph.D. Student in Computer Science, admitted Autumn 2020

### Bio

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#### BIO

I'm a Ph.D. student at Stanford unraveling the future of brain-computer interfaces to revolutionize communication.

#### LINKS

- <https://chaofei.me>: <https://chaofei.me>

### Publications

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#### PUBLICATIONS

- **Brain-to-text decoding with context-aware neural representations and large language models.** *Journal of neural engineering*  
Li, J., Le, T., Fan, C., Chen, M., Shlizerman, E.  
2025
- **Error encoding in human speech motor cortex.** *bioRxiv : the preprint server for biology*  
Hou, X., Iacobacci, C., Card, N. S., Wairagkar, M., Singer-Clark, T., Kunz, E. M., Fan, C., Kamdar, F., Hahn, N., Hochberg, L. R., Henderson, J. M., Willett, F. R., Brandman, et al  
2025
- **An Accurate and Rapidly Calibrating Speech Neuroprosthesis.** *The New England journal of medicine*  
Card, N. S., Wairagkar, M., Iacobacci, C., Hou, X., Singer-Clark, T., Willett, F. R., Kunz, E. M., Fan, C., Vahdati Nia, M., Deo, D. R., Srinivasan, A., Choi, E. Y., Glasser, et al  
2024; 391 (7): 609-618
- **A flexible intracortical brain-computer interface for typing using finger movements.** *bioRxiv : the preprint server for biology*  
Shah, N. P., Willsey, M. S., Hahn, N., Kamdar, F., Avansino, D. T., Fan, C., Hochberg, L. R., Willett, F. R., Henderson, J. M.  
2024
- **Towards a Quantitative Analysis of Coarticulation with a Phoneme-to-Articulatory Model**  
Fan, C., Henderson, J. M., Manning, C., Willett, F. R., Int Speech Commun Assoc  
ISCA-INT SPEECH COMMUNICATION ASSOC.2024: 3095-3099
- **A high-performance speech neuroprosthesis.** *Nature*  
Willett, F. R., Kunz, E. M., Fan, C., Avansino, D. T., Wilson, G. H., Choi, E. Y., Kamdar, F., Glasser, M. F., Hochberg, L. R., Druckmann, S., Shenoy, K. V., Henderson, J. M.  
2023
- **A high-performance speech neuroprosthesis** *NATURE*  
Willett, F. R., Kunz, E. M., Fan, C., Avansino, D. T., Wilson, G. H., Choi, E., Kamdar, F., Glasser, M. F., Hochberg, L. R., Druckmann, S., Shenoy, K. V., Henderson, J. M.  
2023

- **Plug-and-Play Stability for Intracortical Brain-Computer Interfaces: A One-Year Demonstration of Seamless Brain-to-Text Communication**  
Fan, C., Hahn, N., Kamdar, F., Avansino, D., Wilson, G. H., Hochberg, L., Shenoy, K. V., Henderson, J. M., Willett, F. R.  
edited by Oh, A., Neumann, T., Globerson, A., Saenko, K., Hardt, M., Levine, S.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2023