

# Stanford

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## Matthew L. Chastain

Postdoctoral Scholar, Archaeology

### Bio

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#### PROFESSIONAL EDUCATION

- Bachelor of Science, Northwestern University (2009)
- Doctor of Philosophy, Massachusetts Institute of Technology (2019)
- PhD, Massachusetts Institute of Technology , Archaeological Materials (2019)
- BS, Northwestern University , Materials Science and Engineering (2009)

#### STANFORD ADVISORS

- Li Liu, Postdoctoral Research Mentor
- Andrew Bauer, Postdoctoral Faculty Sponsor

### Teaching

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#### COURSES

##### 2023-24

- Investigating Ancient Materials: ANTHRO 180B, ANTHRO 280B, ARCHLGY 180, ARCHLGY 280, MATSCI 127, MATSCI 227 (Aut)

##### 2022-23

- Investigating Ancient Materials: ANTHRO 180B, ANTHRO 280B, ARCHLGY 180, ARCHLGY 280, MATSCI 127, MATSCI 227 (Aut)

##### 2021-22

- Investigating Ancient Materials: ARCHLGY 180, ARCHLGY 280, MATSCI 127, MATSCI 227 (Aut)

### Publications

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#### PUBLICATIONS

- **A new FTIR method for estimating the firing temperature of ceramic bronze-casting moulds from early China.** *Scientific reports*  
Yan, B., Liu, S., Chastain, M. L., Yang, S., Chen, J.  
2021; 11 (1): 3316
- **Cast iron-smelting furnace materials in imperial China: Macro-observation and microscopic study** *JOURNAL OF ARCHAEOLOGICAL SCIENCE*  
Liu, H., Qian, W., Chen, J., Chen, H., Chastain, M. L., Notis, M. R.  
2017; 86: 50-59
- **Metallurgical analysis of copper artifacts from Cahokia** *JOURNAL OF ARCHAEOLOGICAL SCIENCE*  
Chastain, M. L., Deymier-Black, A. C., Kelly, J. E., Brown, J. A., Dunand, D. C.  
2011; 38 (7): 1727-1736