

JAMES CRANLEY

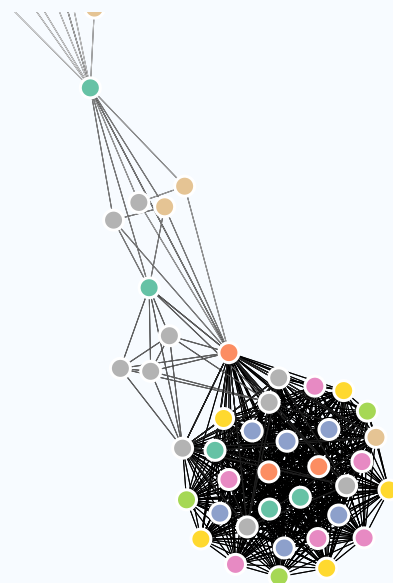
My clinical interest lies at the intersect of inherited cardiac conditions and electrophysiology. During my research I have created a cell atlas of the human heart¹.

EDUCATION

- N/A
Oxford University
- N/A
Eton College
- 2024 | 2021 ● **Wellcome Trust Doctoral Fellowship**
Teichmann Lab
Sanger Institute
- 2019 | 2018 ● **PG Certificate in Medical Education**
Institute of Continuing Education
Cambridge University
- 2018 | 2015 ● **NIHR Academic Clinical Fellowship**
East of England deanery
Cambridge
- 2016 | 2015 ● **Membership of the Royal College of Physicians (London)**
Royal College of Physicians
RCP

RESEARCH EXPERIENCE

- 2024 | 2021 ● **PhD Fellowship**
Teichmann Lab
Sanger Institute
 - Single cell and spatial transcriptomic analysis of the adult and developing human heart
 - 50% wet lab genomics (single-cell and spatial transcriptomic)
 - 50% bioinformatics (python, Bash, R)
- 2018 | 2018 ● **Academic Clinical Fellow pt. 3**
Munroe Lab
Queen Mary University of London
 - Genome-wide association study into ECG trait (PR interval) using UK biobank data
- 2017 | 2017 ● **Academic Clinical Fellow pt. 2**
MacRae Lab
Harvard University
 - Literature review and introduction to zebrafish model



View this CV online with links at
</Users/jc48/Documents/GitHub/james-cranley.github.io/cv/cv.html>

CONTACT

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🐦 [jamescranley](https://twitter.com/jamescranley)
📺 [james-cranley](https://www.youtube.com/channel/UCjamescranley)
🔗 james-cranley.github.io
in [linkedin.com/in/james-cranley/](https://www.linkedin.com/in/james-cranley/)

LANGUAGE SKILLS



Made with the R package
[pagedown](https://github.com/nstrayer/pagedown).

The source code is available on
github.com/nstrayer/cv.

Last updated on 2022-12-26.

2016
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2016



Academic Clinical Fellow pt. 1

Huang Lab

📍 Cambridge University

- Patch clamping rodent cardiomyocytes in a model of metabolic syndrome.

2013
|
2012



Intercalated BSc

Herring Lab

📍 Oxford University

- Investigating the role of the neuropeptide Galanin in cardiac autonomics using a guinea pig Langendorff model



INDUSTRY EXPERIENCE

current
|
2017



Specialty Training, Cardiology

East of England deanery

📍 Royal Papworth Hospital, UK

- ST6: Royal Papworth Hospital
- ST5: Norfolk & Norwich Hospital
- ST3 & ST4: Addenbrooke's Hospital



N/A



N/A

2015
|
2015



Core Medical Training

East of England deanery

📍 Addenbrooke's Hospital

- Papworth Hospital: Cardiology
- Hinchingbrooke Hospital: Respiratory
- Addenbrooke's Hospital: ICU

2015
|
2013



Foundation Training

NW Thames deanery

📍 Charing Cross Hospital

- Harefield Hospital: Cardiology
- Hillingdon Hospital: A&E
- Charing Cross Hospital: Acute Medicine

2013
|
2013



Medical Elective

New York

📍 Mount Sinai Hospital

Foundation training was in North West Thames, followed by Core Medical and Cardiology training in the East of England (run-through)



TEACHING EXPERIENCE

I like education...

● N/A

● N/A

● N/A

● N/A

● N/A

● N/A



SELECTED DATA SCIENCE WRITING

● N/A

● N/A

● N/A

● N/A

● N/A

● N/A



SELECTED PRESS (ABOUT)

● N/A

● N/A

I regularly blog about data science and visualization on my blog [LiveFreeOrDichotomize](#).²

- N/A



SELECTED PRESS (BY)

- N/A

- N/A

- N/A

- N/A

- N/A



SELECTED PUBLICATIONS, POSTERS, AND TALKS

2020

- **Building a software package in tandem with machine learning methods research can result in both more rigorous code and more rigorous research**

ENAR 2020

- Invited talk in Human Data Interaction section.
- How and why building an R package can benefit methodological research

2020

- **Stochastic Block Modeling in R, Statistically rigorous clustering with rigorous code³**

RStudio::conf 2020

- Invited talk about new sbmR package⁴.
- Focus on how software development and methodological research can improve both benefit when done in tandem.

2020

- **PheWAS-ME: A web-app for interactive exploration of multimorbidity patterns in PheWAS⁵**

Bioinformatics

- Manuscript detailing application for the exploration of multimorbidity patterns in PheWAS analyses
- See landing page⁶ for more information.

- 2019
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2019

● **Charge Reductions Associated with Shortening Time to Recovery in Septic Shock⁷**

Chest

 - Authored with Wesley H. Self, MD MPH; Dandan Liu, PhD; Stephan Russ, MD, MPH; Michael J. Ward, MD, PhD, MBA; Nathan I. Shapiro, MD, MPH; Todd W. Rice, MD, MSc; Matthew W. Semler, MD, MSc.
- 2019
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2019

● **Multimorbidity Explorer | A shiny app for exploring EHR and biobank data⁸**

RStudio::conf 2019

 - Contributed Poster. Authored with Yaomin Xu.
- 2019
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2019

● **Taking a network view of EHR and Biobank data to find explainable multivariate patterns⁹**

Vanderbilt Biostatistics Seminar Series

 - University wide seminar series.
- 2019

● **Patient-specific risk factors independently influence survival in Myelodysplastic Syndromes in an unbiased review of EHR records**

Under-Review (copy available upon request.)

 - Bayesian network analysis used to find novel subgroups of patients with Myelodysplastic Syndromes (MDS).
 - Analysis done using method built for my dissertation.
- 2019

● **Patient specific comorbidities impact overall survival in myelofibrosis**

Under-Review (copy available upon request.)

 - Bayesian network analysis used to find robust novel subgroups of patients with given genetic mutations.
 - Analysis done using method built for my dissertation.
- 2018
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2018

● **R timelineViz: Visualizing the distribution of study events in longitudinal studies**

Under-Review (copy available upon request.)

 - Authored with Alex Sunderman of the Vanderbilt Department of Epidemiology.
- 2017
|
2017

● **Continuous Classification using Deep Neural Networks¹⁰**

Vanderbilt Biostatistics Qualification Exam

 - Review of methods for classifying continuous data streams using neural networks
 - Successfully met qualifying examination standards
- 2015
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2015

● **Asymmetric Linkage Disequilibrium: Tools for Dissecting Multiallelic LD**

Journal of Human Immunology

 - Authored with Richard Single, Vanja Paunic, Mark Albrecht, and Martin Maier.

- 2015
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2015
- **An Agent Based Model of Mysis Migration^u**
International Association of Great Lakes Research Conference
• Authored with Brian O'Malley, Sture Hansson, and Jason Stockwell.
- 2015
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2015
- **Declines of Mysis diluviana in the Great Lakes**
Journal of Great Lakes Research
• Authored with Peter Euclide and Jason Stockwell.

LINKS

- 1: <https://www.heartcellatlas.org/>
- 2: <https://livefreeordichotomize.com/>
- 3: http://nickstrayer.me/rstudioconf_sbm
- 4: <https://tbilab.github.io/sbmR/>
- 5: <https://academic.oup.com/bioinformatics/advance-article-abstract/doi/10.1093/bioinformatics/btaa870/5922817?redirectedFrom=fulltext>
- 6: https://prod.tbilab.org/phewas_me_info/
- 7: <https://www.ncbi.nlm.nih.gov/pubmed/30419234>
- 8: http://nickstrayer.me/rstudioconf19_me_poster/
- 9: http://nickstrayer.me/biostat_seminar/
- 10: http://nickstrayer.me/qualifying_exam/
- 11: <https://www.semanticscholar.org/paper/An-Agent-Based-Model-of-the-Diel-Vertical-Migration-Strayer-Stockwell/40493c78e8ecf22bd882d17ec99fd913ec4b9820>