

## Matthew A. Christensen, MD

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### EDUCATION AND TRAINING

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2017 – present	<b>University of Utah, Department of Internal Medicine</b> <i>Internship '17 – '18, Residency '18 – '20, Chief Residency '20 – '21 Hospitalist Track</i>	Salt Lake City, UT
2012 – 2017	<b>University of Michigan Medical School</b> <i>MD with distinction in clinical research</i>	Ann Arbor, MI
2015 – 2016	<b>University of California, San Francisco</b> <i>Certificate in Advanced Training in Clinical Research</i>	San Francisco, CA
2008 - 2012	<b>Cornell University, College of Engineering</b> <i>BS Applied and Engineering Physics, Magna Cum Laude, GPA 3.86/4.00</i>	Ithaca, NY

### HONORS AND AWARDS

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2020 – 2021	<b>Chief Medical Resident</b> — University of Utah Department of Internal Medicine
2015 – 2016	<b>Sarnoff Cardiovascular Research Fellowship</b>
2012 – 2017	<b>Dean's Annual Scholarship</b> — University of Michigan Medical School
2012	<b>Magna Cum Laude</b> — Cornell University
2011	<b>Tau Beta Pi</b> — Engineering Honor Society, Cornell University
2007	<b>Eagle Scout</b> — Boy Scouts of America

### RESEARCH EXPERIENCE

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2018 – Present	<b>Informatics, Decision Enhancement and Analytic Sciences</b> <b>(IDEAS 2.0) Center of Innovation at the SLC VA</b> Advisors: Barbara E. Jones, MD MS; Matthew H. Samore, MD <ul style="list-style-type: none"><li>Investigating performance of clinical prediction tools for empiric antibiotic selection in pneumonia in the national VA population</li><li>1 middle-author publication in <i>JAMA Internal Medicine</i>, 1 first-author publication under review at <i>CID</i>, 2 abstracts (IDWeek 2019, ATS 2020 Oral Presentation with Travel award)</li></ul>	Salt Lake City, UT
2015 – 2016	<b>Sarnoff Cardiovascular Research Fellowship</b> Host institution: University of California, San Francisco Advisors: Gregory M. Marcus MD MAS; Daniel Levy MD Funding award: \$30,000 research stipend <ul style="list-style-type: none"><li>Conducted 3 clinical research projects and first authored 3 manuscripts, developed statistical analysis experience in Stata and R.</li></ul>	San Francisco, CA
2012 – 2014	<b>Summer Biomedical Research Program, University of Michigan</b> Advisors: David Burke PhD; Thomas Sisson MD	Ann Arbor, MI

Funding awards: \$50,000 — Verizon Foundation; \$4,500 — University of Michigan  
Travel award: \$1,200 — IDEO award, IEEE Healthcare Innovation Conference

- Investigated remote monitoring of lung function via smartphone-connected breath sounds signal analysis.
- Recruited and lead team of 3 other graduate and undergraduate students

2011 – 2012	<b>Cardiovascular Developmental Bioengineering Lab, Cornell University</b> Advisor: Jonathan Butcher PhD Funding award: \$1,000 — Engineering Learning Initiatives, Cornell University	Ithaca, NY
	<ul style="list-style-type: none"><li>• Investigated laser ablation for non-invasive development of avian models of congenital heart disease. Assisted with experimental set-up and protocol</li></ul>	
2009 – 2010	<b>Cornell University Minesweeper Engineering Project Team</b>	Ithaca, NY
	<ul style="list-style-type: none"><li>• Designed and built robot with team of ~40 undergraduates to detect landmines</li></ul>	

## PEER REVIEWED PUBLICATIONS

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2020	<p>Iyengar S, Evans T, <b>Christensen MA</b>, Kelley K, Hu B, Shah H. Inflammatory demyelinating polyneuropathy after obinutuzumab administration in a patient with chronic lymphocytic leukemia and multiple infections. <i>Under Review at British Journal of Haematology</i>.</p> <p><b>Christensen MA</b>, Nevers M, Ying J, Haroldsen C, Stevens V, Jones MM, Yarbrough PM, Goetz MB, Restrepo M, Madaras-Kelly K, Samore MH, Jones BE. Potential impact of 2019 community-acquired pneumonia guidelines on culturing and antibiotic selection in hospitalized patient: an analysis of 114 VA Medical Centers. <i>Under Review Clin Infect Dis</i>.</p> <p>Jones BE, Ying J, Stevens V, Haroldsen C, He T, Nevers M, <b>Christensen MA</b>, Nelson RE, Stoddard GJ, Sauer BC, Yarbrough PM, Jones MM, Goetz MB, Greene T, Samore MH. Empirical Anti-MRSA vs Standard Antibiotic Therapy and Risk of 30-Day Mortality in Patients Hospitalized for Pneumonia. <i>JAMA Intern Med</i>. 2020;84132:1-9. PMID: <a href="#">32065604</a>.</p>	
2018	<p><b>Christensen MA</b>, Dixit S, Dewland TA, Whitman IR, Nah G, Vittinghoff E, Mukamal KJ, Redline S, Robbins JA, Newman AB, Patel SR, Magnani JW, Psaty BM, Olgin JE, Pletcher MJ, Heckbert SR, Marcus GM. Sleep Characteristics that Predict Atrial Fibrillation. <i>Heart Rhythm</i>. 2018 Jun; 15(9):1289-1295. PMID: <a href="#">29958805</a></p> <p><b>Christensen MA</b>. A “gripping” case of myositis. <i>Am Thorac Soc</i> online, Quick Hits. May 2018. <a href="#">link</a></p>	
2017	<p><b>Christensen MA</b>, Nguyen KT, Stein PK, Fohtung RB, Soliman EZ, Dewland TA, Vittinghoff E, Psaty BM, Heckbert SR, Marcus GM. Atrial Ectopy as a Mediator of the Association Between Race and Atrial Fibrillation. <i>Heart Rhythm</i>. 2017 Dec;14(12):1856-1861. PMID: <a href="#">29110996</a></p> <p>Nguyen KT, Olgin JE, Pletcher MJ, Ng M, Kaye L, Moturu S, Gladstone RA, Malladi C, Fann AH, Maguire C, Bettencourt B, <b>Christensen MA</b>, Marcus GM. Smartphone-based "Geofencing" to Ascertain Hospitalizations. <i>Circ Cardiovasc Qual Outcomes</i>. 2017 Mar;10(3). pii: e003326. PMID: <a href="#">28325751</a></p>	
2016	<p><b>Christensen MA</b>, Bettencourt L, Kaye L, Moturu ST, Nguyen KT, Olgin JE, Pletcher MJ,</p>	

Marcus GM. Direct Measurements of Smartphone Screen-time: Relationships with Demographics and Sleep. *PLoS One*. 2016;11(11):e0165331. PMID: [27829040](#)

- 2014 **Christensen MA**, Leitner E, Levy B, Sathiyamoorthy BB, Burke DT, Sisson TH. Breath sounds analysis for asthma monitoring: A method for automated detection of flow events from tracheal recordings. Proceedings from the *Healthcare Innovation Conference (HIC)*, 2014 *IEEE*, Seattle, WA, 2014, pp. 331-334. [link](#)

## OTHER PUBLICATIONS

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- 2019 **Christensen MA**, Sanders B, Boi L. [What goldilocks can teach you about problem statements](#). *Accelerate University of Utah Health curriculum*.

## PRESENTATIONS

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- 2020 **Christensen MA**, Jones BE, Haroldsen C, Nevers M, Stevens VW, Jones MM, Samore MH. Potential Impact Of 2019 Community Acquired Pneumonia Guidelines On Culturing And Antibiotic Selection: An Analysis Of 114 VA Medical Centers. Accepted oral presentation at ATS, Philadelphia, PA, May 2020.
- Christensen MA**, Sanders B, Salazar E, Breviu A. Optimizing Discharge Medication Reconciliation. Poster Presentation at Utah ACP (American College of Physicians) Scientific Sessions, Salt Lake City, UT. February 14, 2020
- 2019 **Christensen MA**, Jones BE, Babbel D, Sutton J, Haroldsen H, Spivak E, Stevens V, Jones M, Samore MH. Feasibility of automated prediction of drug resistance in pneumonia in the Veteran population. Poster Presentation at IDWeek, Washington, DC, October 2019.
- 2018 **Christensen MA**, Marcus GM. Sleep Characteristics that Predict Atrial Fibrillation. Invited oral presentation at the University of Utah Health, Sleep Wake Center, Sleep Medicine Grand Rounds, Salt Lake City, UT. August 31, 2018.
- 2016 Kwon ST, **Christensen MA**, De Freitas M, Mack J, Neville S, Jaffe T, Semann D, Arastu A, Guduguntla V, Klapman S, Li P, Saripalli A, Meyers JL. Developing an Innovation Curriculum at the University of Michigan Medical School. Poster Presentation at the Association of American Medical Colleges Annual Meeting, Seattle, WA. November 2016.
- Christensen MA**, Dixit S, Vittinghoff E, Mukamal KJ, Redline S, Robbins JA, Newman AB, Patel SR, Magnani JW, Psaty BM, Heckbert SR, Marcus GM. Decreased REM Sleep is Associated with Higher Risk of Incident Atrial Fibrillation. Oral Presentation at the American Heart Association Scientific Sessions, New Orleans, LA. November 2016.
- Christensen MA**, Dixit S, Whitman IR, Nah G, Dewland TA, Vittinghoff E, Mukamal KJ, Redline S, Robbins JA, Newman AB, Patel SR, Magnani JW, Psaty BM, Heckbert SR, Olgin JE, Pletcher MJ, Marcus GM. Sleep Disruption is Associated with Incident Atrial Fibrillation Independent of Obstructive Sleep Apnea. Oral Presentation at the American Heart Association Scientific Sessions, New Orleans, LA. November 2016.
- Christensen MA**, Marcus GM. Smartphones and Sleep: Help or Harm? Oral Presentation at Univervisity of Michigan Medical Student Grand Rounds, Ann Arbor, MI. September 2016.

**Christensen MA**, Marcus GM. Sleep Disturbances and Atrial Fibrillation. Oral Presentation at the Sarnoff Cardiovascular Research Foundation Scientific Sessions 2016, Boston, MA. May 2016.

2015      Lanham M, **Christensen MA**. Fertility-Related Smartphone Application Use among Patients Seeking Treatment for Infertility. Poster Presentation at the American Society for Reproductive Medicine Annual Meeting, Baltimore, MD. October 2015.

2014      **Christensen MA**, Leitner E, Levy B, Sathiyamoorthy BB, Burke DT, Sisson TH. Breath sounds analysis for asthma monitoring. Oral Presentation at the Institute of Electronic and Electrical Engineers (IEEE) Healthcare Innovation Conference, Seattle, WA. October 2014.

## **LEADERSHIP EXPERIENCE**

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2020 – 2021      **Chief Medical Resident, University of Utah Internal Medicine Residency Program**

2016 – 2018      **Sarnoff Cardiovascular Research Foundation**

*Scientific Committee Member, elected*

- Review applications, mentor current fellows, recruit medical students

Prior to 2016

**University of Michigan Medical School:** Founder and President of the Medical Innovation Interest Group

**Cornell University:** VP for Cornell eMed: society for premedical engineers, Cornell engineering tour guide, Leadershape leadership institute

**Pre-Undergraduate:** Boy Scouts of America Eagle Scout, varsity soccer

## **SKILLS**

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- Statistical analysis: descriptive, regression modeling, survival analysis, repeated measures (Stata, R)
- Engineering: computer aided design (Solidworks), MatLab, LabView

## **PERSONAL INTERESTS**

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Backpacking, snowboarding, soccer, golf, running, sailing, reading