

Park Lab | Program for Hospital and Intensive Care Informatics

Select Publications

Listing of relevant publications. For More Complete Bibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/1jC6vxijdi-56/bibliography/public/>

2025 (as of October 17)

1. Joshi S, Urteaga I, van Amsterdam WAC, Hripcsak G, Elias P, Recht B, Elhadad N, Fackler J, Sendak MP, Wiens J, Deshpande K, Wald Y, Fiterau M, Lipton Z, Malinsky D, Nayan M, Namkoong H, Park S, Vogt JE, Ranganath R. AI as an intervention: improving clinical outcomes relies on a causal approach to AI development and validation. *J Am Med Inform Assoc*. 2025 Jan 7:ocae301. Online ahead of print. PMID: 39775871.
2. Tran AT, Karam GA, Zeevi D, Qureshi AI, Malhotra A, Majidi S, Murthy SB, Park S, Kontos D, Falcone G, Sheth KN, Payabvash S. Improving the Robustness of Deep-Learning Models in Predicting Hematoma Expansion from Admission Head CT. *AJNR Am J Neuroradiol*. 2025 Jan 10:ajnr.A8650. Online ahead of print. PMID: 39794133.
3. * Kim EY, Ranard B, Mills A, **Park S**. In Limbo: Physiological Monitoring of Emergency Department Borders. *Am J Emerg Med*. 2025 Jun;92:219-221. Doi: 10.1016/j.ajem.2025.01.077. Epub 2025 Jan 28. PMID: 39915140. PMC12066217.
4. Armaignac DL*, Heavner SF*, Rausen M, Zhang XT, Al-Hakim T, Strekalova YL, Shah N, Remy KE, Manion S, Haendel M, Kramer AA, Scruth EA, Rincon TA, **Park S**, Evans LE, Ozrazgat-Baslanti T, Herasevich V, Laudanski K, Murphy DJ, Engel HJ, Sikora A, Khanna AK, Zimmerman JJ, Reuter-Rice K, Cobb JP, Clermont G. Guiding Principles for Data Sharing and Harmonization: Results of a Systematic Review and Modified Delphi from the Society of Critical Care Medicine Data Science Campaign. *Crit Care Med*. 2025 Mar 1;53(3):e619-e631. Doi: 10.1097/CCM.0000000000006578. Epub 2025 Feb 21. PMID: 39982146.
5. * Kwon SB, * Weinerman B, * Nametz D, Alalqum T, Lee IS, Megjhani M, McLaren SH, Ranard B, Ku Y, Geneslaw A, **Park S**. (*co-first authors). Pulse Rate Variability as a Predictor for Length of Stay for Patients with Bronchiolitis in the Pediatric Intensive Care Unit. *J Clin Monit Comput*. 2025 June;39(3):533-539. Doi: 10.1007/s10877-025-01287-x. Epub 2025 Mar 25. PMID: 40131664.
6. Bogossian EG, Kempen B, Veldeman M, **Park S**, Rass V, Marinesco S, Weiss M, Schubert GA, Kastenholz N, Claassen J, Kindl P, Berek A, Anderloni M, Conzen-Dilger C, Schuind S, Balança B, Yannick T, Connolly ES, Meyfroidt G, Helbok R, Carra G, Taccone FS. Visualizing the burden of brain tissue hypoxia and metabolic dysfunction assessed by multimodal neuromonitoring in subarachnoid hemorrhage patients: the TITAN study. *Intensive Care Med*. 2025 Apr;51(4):708-720. Doi: 10.1007/s00134-025-07888-z. Epub 2025 Apr 22. PMID: 40261381.
7. * Weinerman B, Kwon SB, Alalqum T, Nametz D, Megjhani M, Clark E, Varner C, Cheung E, **Park S**. Leveraging Pediatric Veno-Arterial Extra Corporeal Membrane Oxygenation Parameters to Identify Early Risk Factors for Mortality. *Perfusion*. 2025 May 7:2676591251340933. Doi:10.1177/02676591251340933. Online ahead of print. PMID: 40331927.

8. Briggs J, Stroh J, Foreman B, Park S, the TRACK-TBI Study Investigators, Bennett TD, Albers DJ. Personalizing the Pressure Reactivity Index for Quantifying Cerebral Autoregulation in Neurocritical Care. IEEE Trans Biomed Eng. 2025 May 15:PP.doi: 10.1109/TBME.2025.3570249. Online ahead of print. PMID: 40372858. PMC12413640.
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11. * Megjhani M, Weinerman B, Alalqum T, Li Y, Kwon SB, Ku Y, Velazquez A, Ghoshal S, Roh DJ, Agarwal S, Connolly Jr ES, Claassen J, **Park S**. Application of a Time Series Foundation Model to Noninvasively Estimate Intracranial Pressure. J Clin Monit Comput (2025). <https://doi.org/10.1007/s10877-025-01366-z>.

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7. Megjhani M, Terilli K, Nametz D, Kwon SB, Weinerman B, Velazquez A, Ghoshal S, Roh D, Agarwal S, Connolly ES Jr, Claassen J, Park S. Automatic Identification of Intracranial Pressure Waveform during External Ventricular Drain Clamping: Segmentation via Wavelet Analysis. *Physiol Meas*. 2023 Jul 4;44(6). PMID: 37327793. PMC10403046.
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