

# Stanford

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## Kathrin Baeumler

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### Bio

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#### INSTITUTE AFFILIATIONS

- Member (Staff), Cardiovascular Institute

### Publications

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#### PUBLICATIONS

- **On the role of tissue mechanics in fluid-structure interaction simulations of patient-specific aortic dissection** *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING*  
Schussnig, R., Rolf-Pissarczyk, M., Baeumler, K., Fries, T., Holzapfel, G. A., Kronbichler, M.  
2024
- **Early clinical outcomes and molecular smooth muscle cell phenotyping using a prophylactic aortic arch replacement strategy in Loeys-Dietz syndrome.** *The Journal of thoracic and cardiovascular surgery*  
Pedroza, A. J., Cheng, P., Dalal, A. R., Baeumler, K., Kino, A., Tognazzi, E., Shad, R., Yokoyama, N., Nakamura, K., Mitchel, O., Hiesinger, W., MacFarlane, E. G., Fleischmann, et al  
2023
- **Artificial intelligence and machine learning in aortic disease.** *Current opinion in cardiology*  
Hahn, L. D., Baeumler, K., Hsiao, A.  
2021
- **On the impact of vessel wall stiffness on quantitative flow dynamics in a synthetic model of the thoracic aorta.** *Scientific reports*  
Zimmermann, J. n., Loecher, M. n., Kolawole, F. O., Bäumler, K. n., Gifford, K. n., Dual, S. A., Levenston, M. n., Marsden, A. L., Ennis, D. B.  
2021; 11 (1): 6703
- **Deep Flow-Net for EPI Distortion Estimation.** *NeuroImage*  
Zahneisen, B., Baeumler, K., Zaharchuk, G., Fleischmann, D., Zeineh, M.  
2020: 116886
- **Fluid-structure interaction simulations of patient-specific aortic dissection.** *Biomechanics and modeling in mechanobiology*  
Baumler, K., Vedula, V., Sailer, A. M., Seo, J., Chiu, P., Mistelbauer, G., Chan, F. P., Fischbein, M. P., Marsden, A. L., Fleischmann, D.  
2020
- **Computed Tomography Imaging Features in Acute Uncomplicated Stanford Type-B Aortic Dissection Predict Late Adverse Events** *CIRCULATION-CARDIOVASCULAR IMAGING*  
Sailer, A. M., Van Kuijk, S. M., Nelemans, P. J., Chin, A. S., Kino, A., Huininga, M., Schmidt, J., Mistelbauer, G., Baeumler, K., Chiu, P., Fischbein, M. P., Dake, M. D., Miller, et al  
2017; 10 (4)