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<b>Major Field</b>	Colonoscopy / Artificial intelligence / Natural language processing

### Educational Background

College of Medicine, Pusan National University, MD degree (1997 – 2004)  
 Postgraduate School of Medicine, Pusan National University, MS degree (2007 – 2009)  
 Postgraduate School of Medicine, CHA University, PhD degree (2020 – 2022)

### Professional Experience

Intern / Residency in Internal Medicine, Pusan National University Hospital (2004 – 2009)  
 Fellowship in Gastroenterology, Pusan National University Hospital (2013 – 2014)  
 Fellowship in Gastroenterology, Seoul Asan Medical Center (2014 – 2015)  
 Clinical Assistant Professor / Clinical Associate Professor / Clinical Professor, Division of Gastroenterology, Seoul National University Hospital Healthcare System Gangnam Center (2015– Present)

### Main Scientific Publications

1. Chung, G. E., Lee, J., Lim, S. H., Kang, H. Y., Kim, J., Song, J. H., ... & Bae, J. H. (2024). A prospective comparison of two computer aided detection systems with different false positive rates in colonoscopy. *npj Digital Medicine*, 7(1), 366.
2. Park, J. B., & Bae, J. H. (2024). Effectiveness of a novel artificial intelligence-assisted colonoscopy system for adenoma detection: a prospective, propensity score-matched, non-randomized controlled study in Korea. *Clinical Endoscopy*.
3. Lee, J., Cho, W. S., Kim, B. S., Yoon, D., Kim, J., Song, J. H., ... & Bae, J. H. (2024). Impact of user's background knowledge and polyp characteristics in colonoscopy with computer-aided detection. *Gut and Liver*, 18(5), 857.
4. Kang, H. Y., Kang, S., Chung, G. E., Baek, D. H., Lee, H. S., Park, J., ... & Bae, J. H. (2025) Structured Integration of an Artificial Intelligence-Based System for the Optical Diagnosis of Colorectal Polyps. *Gut and Liver*.
5. Shin, Y., Bae, J. H., Kim, J., Choi, J., & Kim, Y. G. (2025). A novel approach to overcome black box of AI for optical diagnosis in colonoscopy. *Scientific Reports*, 15(1), 21220.