

# CHUNGWON WOO

21323, 20 Changwondaehak-ro, Uichang-gu, Changwon, Gyeongnam, 51140, Republic of Korea  
woocw@changwon.ac.kr

## APPOINTMENTS

<b>Changwon National University, Changwon, KR</b>	11/2024 - Present
Department of Accounting	
Associate Professor	
<b>Kyungnam University, Changwon, KR</b>	09/2022 – 10/2024
Department of Business Administration	
Assistant Professor	
<b>Science and Technology Policy Institute (STEPI), Sejong, KR</b>	02/2016 – 09/2022
Research Fellow(R&D Planning Managers)	08/2021 – 09/2022
<b>Pukyung National University, Busan, KR</b>	03/2020 – 09/2022
Graduate School of Management of Technology	
Adjunct Professor	
<b>Reformed University, Atlanta, GA</b>	09/2021 – 12/2021
Graduate School of Business Administration	
Adjunct Professor	

## EDUCATION

<b>Korea Advanced Institute of Science Technology (KAIST), Daejeon, KR</b>	09/2013 -02/2016
Ph. D., in School of Business and Technology Management	
Under supervision of Prof. Yang hon Chung	
<b>Korea Advanced Institute of Science Technology (KAIST), Daejeon, KR</b>	09/2011 - 08/2013
M.S. in Business technology and management (Major: Accounting)	
Under supervision of Prof. Yang hon Chung	
<b>Pusan National University (PNU), Busan, KR</b>	03/2004 - 08/2011
B.E. in Mechanical Engineering	
<b>Saga University, Saga, JR</b>	03/2009 - 09/2010
Exchange Student	

## Publications(35)

### 2024

1. Yoon, S., et al., *Do external risk factors increase or decrease country-level R&D efficiency: focused on air pollution and job insecurity?* *Technology Analysis & Strategic Management*, 2024. **36**(3): p. 472-485.  
<https://doi.org/10.1080/09537325.2022.2036715>
2. Qing, L., et al., *Does climate change exposure impact on corporate finance and energy performance? Unraveling the moderating role of CEOs' green experience.* *Journal of Cleaner Production*, 2024. **461**: p. 142653.  
<https://doi.org/10.1016/j.jclepro.2024.142653>
3. Eom, T., C. Woo, and D. Chun, *Predicting an ICT business process innovation as a digital transformation with machine learning techniques.* *Technology Analysis & Strategic*

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Management, 2024. **36**(9): p. 2271-2283.  
<https://doi.org/10.1080/09537325.2022.2132927>

**2023**

4. 우청원, 정우준, 환경위험과 감사시간 및 감사보수와의 관련성. 국제회계학회, 2023. 110: p.181-209.  
<https://doi.org/10.21073/kiar.2023..110.008>
5. Woo, C. and J. Yoo, *Exploring the determinants of blockchain acceptance for research data management*. Journal of Computer Information Systems, 2023. **63**(1): p. 216-227.  
<https://doi.org/10.1080/08874417.2022.2049019>
6. Woo, C. and D. Chun, *R&D performance and relevant factors of renewable energy projects: separating innovation and economic perspectives*. International Journal of Environmental Science and Technology, 2023. **20**(2): p. 2099-2110.  
<https://doi.org/10.1007/s13762-022-04124-9>
7. Jang, S., et al., *Does openness enable or hinder innovation performance? The moderating effect of appropriability mechanisms*. Technology Analysis & Strategic Management, 2023. **35**(1): p. 45-58.  
<https://doi.org/10.1080/09537325.2021.1964465>

**2022**

8. 엄태웅 and 우청원, 기계학습을 활용한 혁신성과 예측 및 변수 중요도 분석. 경영교육연구, 2022. **37**(1): p. 143-163.  
<http://dx.doi.org/10.23839/kabe.2022.37.1.143>
9. 권용현 and 우청원, 유상증자의 공시효과와 영업/재무레버리지의 관계에 관한 실증연구. 회계와 정책연구, 2022. **27**(4): p. 95-127.  
<https://doi.org/10.21737/RAPS.2022.11.27.4.95>
10. Ko, H. and C. Woo, *Innovation and asymmetric cost behavior*. 회계학연구, 2022. **47**(3): p. 183-204.  
<https://doi.org/10.24056/KAR.2022.06.006>

**2021**

11. 윤수진, 정양현, and 우청원, *How Do Organizational Factors Influence Performance through Performance Management System as Innovation?* 회계와 정책연구, 2021. **26**(2): p. 71-96.  
<http://doi.org/10.21737/RAPS.2021.05.26.2.71>
12. 윤상필, 우청원, and 고혜수, 정책수단별 기업 성과 비교 연구: R&D 효율성을 중심으로. 회계와 정책연구, 2021. **26**(2): p. 215-236.  
<http://doi.org/10.21737/RAPS.2021.05.26.2.215>
13. 우청원, 김진용, and 윤상필, 스마트이동체 기업의 원가효율성 분석: 자율주행차, 드론 기업을 중심으로. 경영교육연구, 2021. **36**(5): p. 227-245.  
<http://dx.doi.org/10.23839/kabe.2021.36.5.227>
14. Ko, Y., et al., *Do gender equality and work-life balance matter for innovation performance?* Technology Analysis & Strategic Management, 2021. **33**(2): p. 148-161.  
<https://doi.org/10.1080/09537325.2020.1799971>
15. Ko, H., Y. Chung, and C. Woo, *Choice of R&D strategy and asymmetric cost behaviour*. Technology Analysis & Strategic Management, 2021. **33**(9): p. 1022-1035.  
<https://doi.org/10.1080/09537325.2020.1799971>

**2020**

16. 천동필 and 우청원, CSR 활동이 벤처기업의 경영성과에 미치는 영향: 기업의 성

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- 장단계를 구분하여. 벤처창업연구, 2020. **15**(1): p. 225-235.  
<http://doi.org/10.16972/apjbve.15.1.202002.225>
17. Bae, G. and C. Woo, *How deregulation moderates the effect of public R&D support?* Technology Analysis & Strategic Management, 2020. **32**(10): p. 1223-1235.  
<https://doi.org/10.1080/09537325.2020.1757638>
- 2019**
18. 천동필, et al., 연구개발 수행기관 및 협력유형이 소재부품 R&D 효율성에 미치는 영향. 기술혁신연구, 2019. **27**(3): p. 1-26.  
<https://doi.org/10.14386/SIME.2019.27.3.1>
19. 우청원, *DEA 를 이용한 청정에너지기술 R&D 효율성 분석: 신재생에너지기술 R&D 과제를 대상으로.* 기술혁신학회지, 2019. **22**(4): p. 690-708.  
<https://doi.org/10.35978/jktis.2019.08.22.4.690>
20. Jang, S.S., et al., *CSR, social ties and firm performance.* Corporate Governance: The International Journal of Business in Society, 2019. **19**(6): p. 1310-1323.  
<https://doi.org/10.1108/CG-02-2019-0068>
- 2018**
21. 우청원 and 천동필, *과학기술정책조합이 R&D 효율성에 미치는 영향 분석.* 기술혁신학회지, 2018. **21**(4): p. 1268-1295.
- 2017**
22. 조용래, 우청원, and 최종화, 국가 출연연구소의 협업적 융합연구 성과 분석. 기술혁신학회지, 2017. **20**(4): p. 1089-1121.
- 2016**
23. 이인우, et al., *대덕연구개발특구의 지원사업 성과분석: 성향점수매칭 PSM 방법을 중심으로:* 성향점수매칭 PSM 방법을 중심으로. 경영교육연구, 2016. **31**(1): p. 141-163.
24. 우청원 and 정양현, 원가관리가 기업 내부·외부 연구개발 효율성에 미치는 영향. 관리회계연구, 2016. **16**(2): p. 59-77.
25. Woo, C., et al., *Suppliers' communication capability and external green integration for green and financial performance in Korean construction industry.* Journal of cleaner production, 2016. **112**: p. 483-493.  
<https://doi.org/10.1016/j.jclepro.2015.05.119>
26. Seo, H., et al., *SME's appropriability regime for sustainable development-the role of absorptive capacity and inventive capacity.* Sustainability, 2016. **8**(7): p. 665.  
<https://doi.org/10.3390/su8070665>
27. Kim, M.G., et al., *Environmental capabilities of suppliers for green supply chain management in construction projects: a case study in Korea.* Sustainability, 2016. **8**(1): p. 82.  
<https://doi.org/10.3390/su8010082>
28. Chun, D., et al., *Influencing factors on hydrogen energy R&D projects: An ex-post performance evaluation.* Renewable and Sustainable Energy Reviews, 2016. **53**: p. 1252-1258.  
<https://doi.org/10.1016/j.rser.2015.09.074>
- 2015**
29. Woo, C., et al., *The static and dynamic environmental efficiency of renewable energy: A Malmquist index analysis of OECD countries.* Renewable and Sustainable Energy Reviews, 2015. **47**: p. 367-376.  
<https://doi.org/10.1016/j.rser.2015.03.070>

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30. Seo, H., et al., *Value capture mechanism: R & D productivity comparison of SMEs*. Management Decision, 2015. **53**(2): p. 318-337.  
<https://doi.org/10.1108/MD-02-2014-0089>
31. Hong, S., Y. Chung, and C. Woo, *Scenario analysis for estimating the learning rate of photovoltaic power generation based on learning curve theory in South Korea*. Energy, 2015. **79**: p. 80-89.  
<https://doi.org/10.1016/j.energy.2014.10.050>
32. Chun, D., et al., *Labor union effects on innovation and commercialization productivity: An integrated propensity score matching and two-stage data envelopment analysis*. Sustainability, 2015. **7**(5): p. 5120-5138.  
<https://doi.org/10.3390/su7055120>
- 2014**
33. Woo, C., et al., *Exploring the impact of complementary assets on the environmental performance in manufacturing SMEs*. Sustainability, 2014. **6**(10): p. 7412-7432.  
<https://doi.org/10.3390/su6107412>
34. Woo, C., et al., *Impact of green innovation on labor productivity and its determinants: An analysis of the Korean manufacturing industry*. Business Strategy and the Environment, 2014. **23**(8): p. 567-576.  
<https://doi.org/10.1002/bse.1807>
35. Chun, D., et al., *The role of hydrogen energy development in the Korean economy: An input-output analysis*. International journal of hydrogen energy, 2014. **39**(15): p. 7627-763  
<https://doi.org/10.1016/j.ijhydene.2014.03.058>

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## Conference

1. Woo, C. (2024). Is ESG balance beneficial for the relationship between innovation and corporate financial performance?. Koean Accounting Association. Jeju, Republic of Korea
2. Woo, C. (2023). Stock return reactions to the EU-CBAM: focused on Korean listed companies. Koean Accounting Association. Jeju, Republic of Korea
3. Woo, C. (2022). A Study on the Impact of Social Enterprise Innovation on Financial and Social Performance: Focusing on the Incentive Moderating Effect. Management Accounting Association of Korea. Jeju, Republic of Korea
4. Chun, D., Y. Chung, C. Woo, and H. Seo. (2014). Measuring R&D productivity of the major Korean Firms: Using Data Envelopment Analysis. Korean Academic Society of Accounting. Seoul, Republic of Korea
5. Woo, C., Y. Chung, D. Chun, and H. Seo. (2014). Internal and external R&D efficiency with cost management: evidence from listed manufacturing firms. Management Accounting Association of Korea. Seoul, Republic of Korea
6. Chun, D., Y. Chung, I. Lee, H. Seo, and C. Woo. (2013). R&D investment and firm performance: Contingent on existing rivalry within an industry and barriers to market entry. Korean Accounting Association. Seoul, Republic of Korea
7. Lee, I., Y. Chung, C. Woo, and C. Kwon. (2013). "Study on Sustainability of Technological Innovation Support Service for Small and Medium Enterprise." Korea Technology Innovation Society. Jeju island, Republic of Korea
8. Seo, H., C. Woo, J. Hong, D. Chun, Y. Chung, S. Hong, and J. Kim. (2012). A study of social and economic impact of hydrogen energy R&D with Input-output analysis." The Korean hydrogen and New energy society. Gumi, Republic of Korea
9. Woo, C., and Y. Chung. (2012). The Effect of Financial crisis on relationship between Korea Corporate Governance Index (KCGI) and stock returns. 6th Asian Business Research Conference. Bangkok, Thailand

## Working Papers

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1. Seo, H., Woo, C., The effect of Suppliers' Product Margins and Affiliation on Environmental Activities. *Submitted to Review of Accounting and Policy Studies*
2. Woo, C., Kwon, Y. Carbon risk and Korean capital market reactions to the European Carbon Border Adjustment Mechanism. *Submitted to Review of Accounting and Policy Studies*
3. Woo, C., Chun, D. Is ESG balance beneficial for the relationship between innovation and corporate financial performance? *Revise and Resubmit*
4. Woo, C., Jung, W. Real Earning Management and cybersecurity investment efficiency. *Revise and Resubmit,*
- 5.

## Teaching experience

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1. Managerial Accounting(Undergraduate course, 9credits), Kyungnam University, Fall 2024 Rating:
2. *Cost Accounting*(Undergraduate course, 6credits), Kyungnam University, Spring 2024 Rating:
3. Managerial Accounting(Undergraduate course, 6credits), Kyungnam University, Fall 2023 Rating:
4. *Financial Accounting*(Undergraduate course, 6credits), Kyungnam University, Fall 2023 Rating:
5. *Cost Accounting*(Undergraduate course, 6credits), Kyungnam University, Spring 2023 Rating:
6. *Managerial Accounting*(Undergraduate course, 6credits), Kyungnam University, Fall 2022 Rating:
7. *Technology commercialization*(Graduate course, 3credits), Pukyong National University, Busan Fall 2015
8. *Management Compensation System* (Graduate course, 3 credits), Fall 2022 Kyungnam University, Fall 2024, Rating:
9. *Financial Reporting and Management Strategy* (Graduate course, 2 credits), Spring 2023 Kyungnam University, Spring 2024, Rating:
10. *Strategic Cost Management System* (Graduate course, 3 credits), Kyungnam University, Spring 2024, Rating:
11. *Strategic Performance Evaluation* (Graduate course, 3 credits), Kyungnam University, Fall 2023, Rating:
12. *Managerial Accounting Research* (Graduate course, 3 credits), Kyungnam University, Spring 2023, Rating:
13. *Financial Reporting and Regulation* (Graduate course, 3 credits), Kyungnam University, Spring 2023, Rating:
14. *Cost Management Accounting* (Graduate course, 2 credits), Kyungnam University, Fall 2022, Rating:

### Teaching Assistance

- KAIST(Accounting management, Graduate course)
- KAIST(Advanced performance management, Graduate course)
- KAIST(Accounting principle, Graduate course course)
- KAIST(Managerial accounting, Undergraduate course)

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- KAIST(Accounting principle, Undergraduate course)
  - KAIST(Negotiation and contention management, Undergraduate course)

*Language Lecturer*

- Korean teacher for international students, KAIST International house
  - Korean director for Japanese citizen, Saga University, Japan
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## BOOK CHAPTERS

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1. Seo, H., Woo, C., The effect of Suppliers' Product Margins and Affiliation on Environmental Activities. *Submitted to Review of Accounting and Policy Studies*
2. Woo, C., Kwon, Y. Carbon risk and Korean capital market reactions to the European Carbon Border Adjustment Mechanism. *Submitted to Review of Accounting and Policy Studies*
3. Woo, C., Chun, D. Is ESG balance beneficial for the relationship between innovation and corporate financial performance? *Revise and Resubmit*
4. Woo, C., Jung, W. Real Earning Management and cybersecurity investment efficiency. *Revise and Resubmit,*
- 5.

## AWARDS, GRANTS, AND HONORS

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1. Seo, H., Woo, C., The effect of Suppliers' Product Margins and Affiliation on Environmental Activities. *Submitted to Review of Accounting and Policy Studies*
2. Woo, C., Kwon, Y. Carbon risk and Korean capital market reactions to the European Carbon Border Adjustment Mechanism. *Submitted to Review of Accounting and Policy Studies*
3. Woo, C., Chun, D. Is ESG balance beneficial for the relationship between innovation and corporate financial performance? *Revise and Resubmit*
4. Woo, C., Jung, W. Real Earning Management and cybersecurity investment efficiency. *Revise and Resubmit,*
- 5.

## REF

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1. Seo, H., Woo, C., The effect of Suppliers' Product Margins and Affiliation on Environmental Activities. *Submitted to Review of Accounting and Policy Studies*
2. Woo, C., Kwon, Y. Carbon risk and Korean capital market reactions to the European Carbon Border Adjustment Mechanism. *Submitted to Review of Accounting and Policy Studies*
3. Woo, C., Chun, D. Is ESG balance beneficial for the relationship between innovation and corporate financial performance? *Revise and Resubmit*
4. Woo, C., Jung, W. Real Earning Management and cybersecurity investment efficiency. *Revise and Resubmit,*
- 5.

