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| 김도현(Dohyun Kim) | Phone: +82-10-4186-5725  Email: dhkim.cse@gmail.com  https://dohyun-cse.github.io/ |

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|  | **연구분야** |

Finite Element Methods, Polygonal Finite Element Methods, Nonconforming Methods, Fluid Dynamics, Scientific Computing

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|  | 약력 |

## 박사 Computational Science and Engineering – Mathematics | 연세대학교

### 2015.03 – 2021.02

## 학사 Mathematics | 한양대학교

### 2011.03 – 2015.02

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|  | 학술지 출판 |

## Morley finite element methods for the stationary quasi-geostrophic equation | Computer Methods in Applied Mechanics and Engineering, 375, 113639 (2021)

**Dohyun Kim,** Amiya K. Pani, Eun-Jae Park

## Staggered DG methods for the pseudostress-velocity formulation of the Stokes equations on general meshes | SIAM Journal on Scientific Computing, 42, pp. A2537-A2560 (2020)

**Dohyun Kim**, Lina Zhao, Eun-Jae Park

## Error estimates of B-spline based finite-element methods for the stationary quasi-geostrophic equations of the ocean | Computer Methods in Applied Mechanics and Engineering, 335, pp. 255-272 (2018)

**Dohyun Kim**, Tae-Yeon Kim, Eun-Jae Park, Dong-wook Shin

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|  | 국제 학회 발표 |

## Staggered discontinuous Galerkin methods for the Stokes equations on general polygonal meshes | The 26th International Domain Decomposition Conference

December 7-12, 2020, Hong Kong, China (Online)

## Error estimates of B-spline based finite-element methods for the stationary quasi-geostrophic equations of the ocean | The Week of Applied Mathematics and Mathematical Modelling

October 7-11, 2019, Vladivostok, Russia

## A C0-discontinuous Galerkin method for quasi-geostrophic equations | International Conference on Computational Mathematics – Advances in Computational PDEs

September 29-October 2, 2018, Seoul, South Korea

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|  | 국내 학회 발표 |

## C0-interior penalty methods for stationary quasi-geostrophic equations | KSIAM 2018 Annual Meeting

2018.11.02-04, 제주

## Finite element methods for wind-driven large scale ocean circulation with spline basis | 2017 KSIAM Annual Meeting

2017.11.03-05, 부산

## (포스터) B-spline based finite element method for a Large scale ocean circulation | KSIAM 2017 Spring Conference Joint with EASIAM

2017.06.23-24, 서울

## Discontinuous Galerkin methods for Hodgkin-Huxley model | 2017 KMS Spring Meeting

2017.04.28-30, 광주

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|  | 수상 |

## 우수논문장려상 | 연세대학교2019

## KSIAM-MathWorks Problem Challenge - Award of Excellence | KSIAM 2018

## 포스터 우수 논문상 | KSIAM 2017

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|  | 프로그래밍 |

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| --- | --- |
| * MATLAB * Python | * C++ |

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| --- | --- |
|  | 언어 |

|  |  |
| --- | --- |
| * Advanced level in **English** | * Native proficiency in **Korean** |