



**MADONNA  
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## **EDUCATION**

Ph.D. Exercise Science & Biomechanics (2022). University of Nebraska, Omaha, NE

Ph.D. Candidate. Mechanical Engineering (2017). State University of Semnan, Semnan, Iran

M.S. Mechanical Engineering (2010). State University of Semnan, Semnan, Iran

B.S. Mechanical Engineering (2008). State University of Semnan, Semnan, Iran

## **PATENTS**

Mahdipour Bouzani N, Mohammadzadeh Gonabadi A, Mahdipour Bouzani H, Mahdipour Bouzani M, inventors (October 3, 2012). Design & Production of Optimized Helical Gear. Iran #74288.

## **BOOK**

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## **SELECTED ARTICLES AND BOOKCHAPTERS**

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Fallahtafti F, Arash M Gonabadi, Samson K, Curtze C, Yentes JM (2021). Margin of stability is larger and less variable during treadmill walking versus over ground. *Journal of Biomechanics*, 1(1):118-130.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2020). Differences between joint-space and musculoskeletal estimations of metabolic rate time profiles. *PLOS Computational Biology*. 16(10): e1008280. <https://doi.org/10.1371/journal.pcbi.1008280>

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Mohammadzadeh Gonabadi A, Antonellis P, Myers S, Pipinos I, Malcolm P. Can actuation timing and magnitude of a bilateral semi-rigid hip exoskeleton alter metabolic cost? 6th Human Movement Variability Conference & 2nd Great Plains Biomechanics Conference. University of Nebraska at Omaha, Omaha, Nebraska. May 16-20, 2022. (Poster).

Mohammadzadeh Gonabadi A, Antonellis P, Myers S, Pipinos I, Malcolm P. How can actuation timing and magnitude of a bilateral semi-rigid hip exoskeleton optimize metabolic cost? Student Research and Creative Activity Fair. University of Nebraska at Omaha. March 3, 2022.

Mohammadzadeh Gonabadi A, Malcolm P. Optimization of the musculoskeletal simulation in estimation of metabolic cost. Student Research and Creative Activity Fair. University of Nebraska at Omaha. March 3, 2022.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P. Optimization of musculoskeletal simulation parameters for estimating metabolic cost. 6th Human Movement Variability Conference & 2nd Great Plains Biomechanics Conference. University of Nebraska at Omaha, Omaha, Nebraska. May 16-20, 2022. (Poster).

Mohammadzadeh Gonabadi A, Antonellis P, Myers S, Pipinos I, Malcolm P. Optimizing metabolic cost in a semi-rigid bilateral hip exoskeleton by actuation timing and magnitude of the moment. 12th Annual Regional Meeting of the, Rocky Mountain American Society of Biomechanics. Estes Park, Colorado. April 8, 2022.

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Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2020). Effects of assistance timing of forward forces at the center-of-mass on propulsion. 10th Annual Regional Meeting of the Rocky Mountain American Society of Biomechanics. Estes Park, CO.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2020). The timing of forward forces at the center-of-mass has little effect on propulsion ground reaction forces. 44th Annual Meeting of the American Society of Biomechanics (ASB2020), Atlanta, GA. August 4-7,2020.

Mohammadzadeh Gonabadi A, Antonellis P, Myers S, Pipinos I, Malcolm P (2020). Designing and developing a new semi-rigid bilateral exoskeleton to assist hip joint motion. 44th Annual Meeting of the American Society of Biomechanics (ASB2020), Atlanta, GA. August 4-7,2020.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2020). Development of a system for assistance at the center of mass. 44th Annual Meeting of the American Society of Biomechanics (ASB2020), Atlanta, GA. August 4-7,2020.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2020). Simple robotic walking assistance at the center of mass. Student Research and Creative Activity Fair. University of Nebraska at Omaha. Omaha, NE. March 6, 2020.

Mohammadzadeh Gonabadi A, Antonellis P, Myers S, Pipinos I, Malcolm P (2020). Design and development of a semi-rigid hip exoskeleton. Student Research and Creative Activity Fair. University of Nebraska at Omaha. Omaha, NE. March 6, 2020.

Fallah Tafti F, Mohammadzadeh Gonabadi A, Samson K, Curtze C, Yentes JM (2020). Speed of Walking, as well as Walking Mode (Treadmill vs. Overground), can affect Margin of Stability. Presented, 44th Annual Meeting of the American Society of Biomechanics. Atlanta, GA. August 4-7, 2020.

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Malcolm P, Antonellis P, Mohammadzadeh Gonabadi A, Galle S, Clercq DD (2019). Assistive mechanisms of (distal) ankle exoskeletons and a (proximal) robotic waist tether. 43rd Annual Meeting of the American Society of Biomechanics (ASB2019). Calgary, AB, Canada. July 31 - August 04, 2019.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of timing and magnitude of forward forces at the waist on the metabolic cost of walking. 43rd Annual Meeting of the American Society of Biomechanics (ASB2019). Calgary, AB, Canada. July 31- August 04, 2019.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2019). Estimating the time profile of metabolic cost within the gait cycle during level and uphill walking. 43rd Annual Meeting of the American Society of Biomechanics (ASB2019). Calgary, AB, Canada. July 31 - August 04, 2019.

Mohammadzadeh Gonabadi A, Yentes JM (2019). The effect of arm swing on countermovement vertical jump performance. Student Research and Creative Activity Fair. Student Research and Creative Activity Fair. University of Nebraska at Omaha. Omaha, NE. March 01, 2019.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of timing and magnitude of forward forces at the waist on the metabolic cost of walking. 9th Annual Regional Meeting of the Rocky Mountain American Society of Biomechanics. Estes Park, CO. April 05-06, 2019.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2019). Estimating the time profile of the metabolic cost during the gait cycle of level and uphill walking. 9th Annual Regional Meeting of the Rocky Mountain American Society of Biomechanics. Estes Park, CO. April 05-06, 2019.

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Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of Timing and Magnitude of Waist Pulling Assistance on Metabolic Cost and Joint Mechanics. Student Research and Creative Activity Fair. University of Nebraska at Omaha. Omaha, NE. March 01, 2019.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2019). Estimating variations of metabolic cost within the stride cycle during level and uphill walking. Human Movement Variability Conference. University of Nebraska at Omaha, Omaha, NE. May 16, 2019.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of variations in timing and magnitude of forward forces at the waist on the metabolic cost of walking. Human Movement Variability Conference. University of Nebraska at Omaha, Omaha, Nebraska. Omaha, NE. May 16, 2019.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of timing and magnitude of forward forces at the waist on the metabolic cost of walking. 14th Annual Dynamic Walking Conference. Canmore, AB, Canada. June 3-6, 2019.

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Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2018). Effects of timing and magnitude of waist pulling assistance on metabolic cost and joint mechanics. 8th Annual Regional Meeting of the Rocky Mountain American Society of Biomechanics. Estes Park, CO. April 14, 2018.

Mohammadzadeh Gonabadi A, Antonellis P, Vanderheyden T, Bishop KI, Malcolm P (2018). Development of a footswitch device to predict falls using nonlinear analysis. 8th Annual Regional Meeting of the Rocky Mountain American Society of Biomechanics. Estes Park, CO. April 14, 2018.

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Mohammadzadeh Gonabadi A, Antonellis P, Vanderheyden T, Bishop KI, Malcolm P (2018). Developing a footswitch device to assess the likelihood of falls in at-risk populations. Student Research and Creative Activity Fair. University of Nebraska at Omaha. Omaha, NE. March 2, 2018.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2018). Development of waist perturbation effector for investigating relationship between mechanical work and metabolic cost. 13th Annual Dynamic Walking Conference. Pensacola, FL. May 21-24, 2018.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2018). Effects of timing and magnitude of waist pulling assistance on metabolic cost and joint mechanics. Human Movement Variability Conference. University of Nebraska at Omaha. Omaha, NE. May 17, 2018.

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Mashhadiali N, Kheyroddin A, Mohammadzadeh A (2013). Structure architecture interaction in tall building with diagrid system. Second International Conference on Architecture and Structure. Tehran, Iran. Volume: 2. May 15-16, 2013.

Etemadee N, Saedodin S, Mohammadzadeh Gonabadi A (2012). Thermal energy losses in pressure reducer valve of city gate station. First International Conference and third national conference of Dams & Hydro power. Tehran, Iran. February 8-13, 2012.

Ramezani H, Sasan A, Moradi M, Mohammadzadeh A (2010). Design of robot path in three-dimensional workspace, with the aid of thermal potential. 11th Iranian Conference on Manufacturing Engineering. Tabriz, Iran. 2010.