

Curriculum Vitae – Yannick Hill, PhD

Personal Details

Initials, (given name(s)), last name
Date and place of birth

Y. (Yannick) Hill
23.08.1992, Gehrden
(Region Hannover),
Germany
hill.yannick@gmail.com
0049 176 8088 3821



Current Positions and Affiliations

Assistant Professor

Vrije Universiteit Amsterdam, Faculty for
Behavioral and Movement Sciences
Lyda Hill Institute for Human Resilience,
Colorado Springs, USA

International Research Affiliate

Previous Academic Positions

09/2021 – 08/2022

Postdoctoral Researcher, Institute for Sport
& Sport Science, Heidelberg University
(Germany)

09/2020 – 08/2021

Instructor for Developmental Psychology,
University of Groningen (Netherlands)

02/2021 – 08/2021

Researcher in Human Movement Science,
University Medical Center Groningen
(Netherlands)

Doctorate

University

University of Groningen (Netherlands)

Starting Date

01/09/2016

Defense

26/11/2020

Domain

Sport & Performance Psychology

Supervisor(s)

Prof. Dr. Nico W. van Yperen; Dr. Ruud
J.R. den Hartigh; Prof. Dr. Rob R. Meijer

Title

A Dynamical Approach to Psychological
Resilience

List of Publications

Internationally Peer-reviewed Articles

- Hill, Y.,** Den Hartigh, R.J.R., Meijer, R.R., De Jonge, P., & Van Yperen, N.W. (2018). Resilience in sports from a dynamical perspective. *Sport, Exercise, and Performance Psychology*, 7, 333-341. DOI: 10.1037/spy0000118
- Hill, Y.,** Den Hartigh, R.J.R., Meijer, R.R., De Jonge, P., & Van Yperen, N.W. (2018). The temporal process of resilience. *Sport, Exercise, and Performance Psychology*, 7, 363-370. DOI: 10.1037/spy0000143
- Den Hartigh, R.J.R., **Hill, Y.,** & Van Geert, P.L.C. (2018). The development of talent in sports: A dynamic network approach. *Complexity*. DOI: 10.1155/2018/9280154
- Hill, Y.,** Kiefer, A.W., Silva, P.L., Van Yperen, N.W., Meijer, R.R., Fischer, N., & Den Hartigh, R.J.R., (2020). Antifragility in climbing: determining optimal stress loads for athletic performance training. *Frontiers in Psychology*, 11:272. DOI: 10.3389/fpsyg.2020.00272
- Hill, Y.,** Den Hartigh, R.J.R., Cox, R.F.A., De Jonge, P., & Van Yperen, N.W. (2020). Predicting resilience losses in dyadic team performance. *Nonlinear Dynamics, Psychology, and Life Sciences*, 24, 327-352.
- Hill, Y.,** Van Yperen, N.W., & Den Hartigh, R.J.R. (2020). Facing Repeated Stressors in a Motor Task: Does it Enhance or Diminish Resilience?. *Journal of Motor Behavior*, 10pp. DOI: 10.1080/00222895.2020.1852155
- Hill, Y.,** Meijer, R.R., Van Yperen, N.W., Michelakis, G., Barisch, S., & Den Hartigh, R.J.R. (2021). Non-ergodicity in protective factors of resilience in athletes. *Sport, Exercise, and Performance Psychology*, 10, 217–223. DOI: 10.1037/spy0000246
- Hill, Y.** & Van Yperen, N.W. (2021). Losing the home field advantage when playing behind closed doors during COVID-19: Change or chance?. *Frontiers in Psychology*, 12:658452. DOI: 10.3389/fpsyg.2021.658452
- Den Hartigh, R.J.R., Otten, S., Gruszczynska, Z.M., & **Hill, Y.** (2021). The relation between complexity and resilient motor performance, and the effects of differential learning. *Frontiers in Human Neuroscience*, 15:715375. DOI: 10.3389/fnhum.2021.715375
- Den Hartigh, R.J.R., Meerhoff, L.R.A., Van Yperen, N.W., Neumann, N.D., Brauers, J.J., Frencken, W.G.P., Emerencia, A., **Hill, Y.,** Platvoet, S., Atzmueller, M., Lemmink, K.A.P.M., Brink, M.S. (2022). Resilience in Sports: A Multidisciplinary, Dynamic,

and Personalized Perspective. *International Review of Sport and Exercise Psychology*.
DOI: 10.1080/1750984X.2022.2039749

Den Hartigh, R.J.R. & **Hill, Y.** (2022). Conceptualizing and Measuring Psychological Resilience: What Can We Learn from Physics?. *New Ideas in Psychology*, 66, 100934. DOI: 10.1016/j.newideapsych.2022.100934

Book Chapters

Den Hartigh, R.J.R., **Hill, Y.**, & Van Geert, P.L.C. (2017). Talent Development from a Complex Systems Perspective. In C. Torrents, P. Passos, & F. Cos (Eds.), *Complex Systems in Sport. Linking Theory to Practice* (pp. 100-103). Frontiers Media SA. DOI: 10.3389/978-2-88945-310-8

Frenkel, M.O., Voigt, L., & **Hill, Y.** (2022). Einfluss von Stress auf motorisches Verhalten und Leistung. In S. Klatt & B. Strauß (Eds.), *Kognition und Motorik – Sportpsychologische Grundlagenforschung und Anwendungen im Sport* (pp. 180-192). Hogrefe.

Research Experience

In my previous research projects, I have applied various (nonlinear) time-series analysis techniques, which originate from complexity sciences. For example, I have modelled performance development with differential equations, assessed positive and negative transitions using cross-recurrence quantification analysis, and demonstrated non-ergodicity in time-series with mathematical models and empirical data. These techniques stem from various research designs, such as computer simulation studies and experimental research designs.

Teaching Responsibilities

2021 – present	Training and Performing (Co-coordinator, MSc)
2021 – present	Conversational Skills for Sport Psychologists (Coordinator, BSc)
2021 – present	Current Issues in Sport and Exercise Psychology (Coordinator, MSc)
2020	Modelling Interactions between Persons and Variables over Time (Coordinator, MSc)
2020	Ontwikkelingspsychopathologie, een ontwikkelingsperspectief (EN: Developmental Psychopathology, a Developmental Perspective) (Coordinator, MSc)
2020	Sports Science minor (Co-coordinator, BSc)
2019 – 2021	Research Practicum in Developmental Psychology (Coordinator, BSc)
2018 – 2020	Academic Skills (Instructor, BSc)
2017 – present	Master Theses (Supervisor, MSc)
2016 – 2020	Competence & Motivation (Instructor, MSc)
2016 – 2018	Talent Development & Creativity (Teaching Assistant, MSc)
2016 – 2021	Literature Studies (Supervisor, BSc & MSc)
2016 – present	Bachelor Theses (Supervisor, BSc)
2016 – 2018	Talent Development & Creativity in Practice (Instructor, MSc)
2016	Honors Research Practicum (Supervisor, BSc)
2015	Communication & Diagnostic Skills (Student Teacher, BSc)
2014	Intervention & Dialogue (Student Teacher, BSc)

Guest Lectures

2020	Applied Social Psychology – Sports and Performance
2019	Master course Milestones and Talent in Development
2017 – 2022	Master course Complexity, Dynamics, and Development

Supervision of Students

<u>Level</u>	<u>Number of Students</u>	<u>Role in Supervision</u>
Master students	16 (15 finished, 1 ongoing)	First examiner (12), co-supervisor (4)
Bachelor students	23 (22 finished, 1 ongoing)	First examiner (20), co-supervisor (2)
Honors students	3 (all finished)	First examiner (all)

International Conference Presentations

2021	Congrès de l'association des chercheurs en activités physiques et sportives (Montpellier, France)
2021	International Congress on Complex Systems in Sports (Mainz, Germany)
2019	European Congress of Sport & Exercise Psychology (Münster, Germany)
2019	International Conference on Perception & Action (Groningen, Netherlands)
2018	European Workshop for Ecological Psychology (Toulouse, France)
2018	Science and Engineering Conference on Sport Innovation (Groningen, Netherlands)
2017	International Congress Complex Systems in Sport (Barcelona, Spain)

Invited Presentations

2021	Webinar on Dynamics of Resilience (Lund University, Sweden)
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National and Local Presentations

2019	Healthy Ageing Symposium (Groningen, Netherlands)
2018	Heymans Symposium (Groningen, Netherlands)

International Training Courses

2017	Nonlinear Methods for Psychological Science (American Psychological Association – Advanced Training Institute, Cincinnati, OH, United States)
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National Training Courses

2018	Beginner's Guide to Grant Writing (Groningen, Netherlands)
2017	Research Ethics & Scientific Integrity (Groningen, Netherlands)
2016	Complexity, Dynamics, & Development (Groningen, Netherlands)

International Stays

2018	Cincinnati Children's Hospital / University of Cincinnati, OH, USA: Working visit to Dr. Adam Kiefer and Dr. Paula Silva, two leading researchers on applying dynamical systems and nonlinear time-series methods to studying how athletes grow from stressors
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Previous Funding, Prizes, and Honors

2018	Best Poster Prize 2018 awarded by the Heymans Symposium	150 EUR
2016	Research grant for PhD project on Talent Development awarded by Sparkasse	48,000 EUR

Reviewer Work

Since 2022	Psychological Review
Since 2021	Science and Medicine in Football
Since 2021	Sports Medicine – Open
Since 2021	Psychology of Sport & Exercise
Since 2021	Frontiers in Network Physiology – Network Physiology of Exercise
Since 2020	Brazilian Journal of Physical Therapy
Since 2020	Emotion & Cognition
Since 2018	European Journal of Sport Science

Knowledge Utilization

2020 – 2021	Coordinator Sport Science and Innovation Groningen
2019	Finalist 3 Minute Thesis Competition University of Groningen
2018	Detecting changes in athletes' resilience. Invited talk with accompanying lab demonstration for the Dutch Association of Sports Psychology (Groningen, Netherlands)
2018	Scientific blog post on the different conceptualizations of psychological processes (Mindwise)
2018	Supervising lab demonstration for the Open Day of Science of the university
2017	Conducting lab demonstration for the Open Day of Science of the university
2016	Scientific blog post on the benefits of cross-domains collaboration in research (Mindwise)

Additional Certifications

2016	Sport Psychology Certificate, provided by the Dutch Association of Sports Psychology (VSPN)
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